Robert HECKEL

CV: Robert Heckel

Robert is a passionate software developer who loves to learn new technologies and use them in a meaningful way.

His motivation is...
to make life easier with intelligent automation.

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Date of birth	4 October 1991
IT experience since	2012
Qualification / Degree	Computer Science Expert: Software Development
Certifications	ASQF ® Certified Professional for Project Management iSAQB Certified Professional for Software Architecture
Technical focus	C#, MS SQL, AWS/Azure, Angular
I like...	Sport, Sun, Fun, Deep Talk, Travel, Non-fiction

Projects

Date	Role	Customer	Activity / Background / Results	Tech & Tools
05/20	Freelancer (SEO and performance Consultant)	Microzement	SEO and performance optimization of the website, because it was not visible since the new Google Core Update. www.microzement.com	WordPress, Citrix, Google Developer Tools
03/20	Freelancer (SW-Developer, UX/UI Designer)	CablePoint GmbH	Migration from A-Record to new DNS. Creation of a new website with WordPress. www.cablepoint.de	WordPress, CSS, HTML, JavaScript
02/20	Freelancer (SW-Developer, UX/UI Designer)	MODL GmbH	Bug Fixing UI and updated the typo3 website to the new PHP version because the old one was no longer supported. www.modl.de	Typo3, PHP, CSS, JavaScript, HTML
10/19 - 02/20	Product Owner	Toolentdecker	Created an online platform to find the right tools for your project, your company or daily life. www.toolentdecker.de	WordPress, CSS, HTML, JavaScript, PHP
11/18 - 10/19	Freelancer (SW-Developer, SW-Tester, DevOps Engineer)	Siemens Healthcare GmbH	*Background* The medical software that is used at the customer's site must function in a stable manner so that no harm is done to the patients. For this purpose, a special test framework was developed, which tests the used software on high standards and is continuously provided to the developers of the medical software via Devop's pipelines with new updates. *Action* For this purpose, I have extended the test framework with new NUnit tests, developed CI/CD pipelines in Azure and TFS to build the software after development and subject it to integration, system and component tests. I also optimized the dashboard to display tests and extended related applications for more detailed test analysis.	C#, TFS, MS SQL, JavaScript, HTML & CSS, Azure

			Result The customer was able to use a stable test framework, which was specially developed for the needs of medical software. www.siemens-healthineers.com	
10/18-11/18	Freelancer (SW-Developer, UX/UI Designer)	Kanzlei L	Customization and automation of customer acquisition processes. Creation and adaptation of forms with Angular. www.kanzlei-l.de	WordPress, Angular 6, CSS, HTML, JavaScript, PHP
10/18	Freelancer (SW-Developer, UX/UI Designer)	ABC Bauelemente GmbH	Customization and pre-qualification of customer acquisition processes with Angular. www.smartkozijnen.nl	WordPress, Angular 6, JavaScript, HTML, CSS, PHP
10/18 - 08/19	Freelancer (SW-Developer, Admin, Data Analyst, Data Engineer)	Interfacewerk GmbH	*Background* The end customer was using a CRM system to manage their student data and needed help with the visual display of data, automated notification of specific events, automated import of Excel files and the extension of CRM modules. *Action* For this I maintained the SAGE CRM SQL database, extended it with additional fields and displayed it in existing and new SAGE modules for evaluation and editing purposes. *Result* The customer was able to view the student data clearly and was automatically notified about certain events. www.tum.de	SAGE CRM. MS SQL, JavaScript, Angular 6, GIT, Visual Studio Code, MS SSIS, Docker
09/18	Freelancer (SW-Developer, UX/UI Designer)	Disentertainment	Created a new and modern website for the music label Disentertainment.. www.disentertainment.de	WordPress, HTML, CSS, JavaScript

01/18 - 10/18	SW-Developer, UX/UI Designer	Siemens Healthcare GmbH	**Background** To connect the customer's medical equipment to the hospital network and to Siemens, they had to be configured for the network and a connection had to be established. For this purpose, an application was developed which was supposed to enable the remote setup and maintenance of the network. A frontend developer was needed to develop the application with AngularJS and to fix bugs.	AngularJS, .NET, MSSQL, Jenkins, Sonar, Artifactory, GIT, Rabbit MQ
			Action For this purpose, I used AngularJS to fix bugs and program extensions that improved and extended the functionality of the application so that users were able to enter, edit, delete, group, filter, sort and assign data. For this I obtained the data via a .NET REST application and built AngularJS modules for each use case.	
			Result The customer received a functional and professional frontend for setting up the network connectivity. www.siemens-healthineers.com	
02/18	Freelancer (SW-Developer, UX/UI Designer)	OM Group	**Background** Some elements were displayed on the website that were not needed. In addition, the entire website was to be translated into German and French and incorrect elements were to be corrected.	WordPress, JavaScript, CSS, HTML
			Action For this purpose I translated single texts with the help of a translation plugin in WordPress and with the help of JavaScript and CSS, I displayed, removed and individually aligned elements.	
			Result The customer received a professional	

website with which he attracts customers magnetically from different language regions.
www.sprachelernen.ch

12/17	Freelancer (SW-Developer, UX/UI Designer)	JOST Baukunst GmbH	*Background* On the website, some elements such as the picture gallery did not work properly and the texts did not appear flush with each other. *Action* Optimization of the content with CSS and integration of an own image slider with JQuery. *Result* The website makes a professional impression and shows that the customer attaches great importance to accuracy. www.jost-baukunst.de	WordPress, CSS, JavaScript, HTML
10/17	Freelancer (SW-Developer, UX/UI Designer)	Abrufkredit24	*Background* The website should also be optimized for AMP and errors in a comparison table should be corrected. *Action* For this I tested the website under different conditions and optimized the design on CSS, HTML and JavaScript level, so that it rendered well for mobile devices and got a good ranking at Google. *Result* A single-digit placement on Google, a working comparison table of credits and also usable for mobile devices. www.abrufkredit24.de	WordPress, PHP, CSS, HTML, JavaScript, Google Pagespeed, Google Console
01/17 - 01/18	Application Manager, Product Manager	Siemens Healthcare GmbH	*Background* Due to personnel bottlenecks, a new application manager for an application was sought who would drive the application forward.	MS SharePoint, SAP EDM, MS Office

Action
For this purpose I planned new incidents, changes, bugfixes based on customer requests and informed my India-based team about them. I created the necessary quality documentation, which recorded every single process of further development and change of the application and communicated with infrastructure or network managers for the smooth implementation of new customer requests. We coordinated my progress and tasks in internal team meetings. For a better understanding I went to stakeholders and users and had them explain their use cases and how they handled them.

Result
An application that always ran smoothly from the customer's point of view and brought helpful and time-saving enhancements.
www.siemens-healthineers.com

| 07/16-01/17 | IT- Architect, SW-Developer | Siemens Healthcare GmbH | *Background* In order to comply with FDA guidelines, the customer had to subject the medical devices at the end customer's premises to various tests before and after installation, have them signed, print them as reports and integrate them into existing quality documentation. For this purpose, an application was to be created that would run as an app on various end devices such as iPad, Surface or a Samsung tablet and function offline as well as online. In addition, for performance reasons, a scalable cloud environment should be used if higher computing capacity is required at peak times. | Cordoba, .ASP.NET, MSSQL, AWS, Angular 2, IONIC, MySQL, SQLite, Visual Studio Code, Visual Studio, SVN |

Action
For this purpose I first analyzed different implementation possibilities like Cordova, Xamarin, Object-C, Java

for the client side implementation as an app. Then I developed a cost efficient concept for the cloud implementation in AWS and presented the findings to the end customer.

After the approval I developed a prototype to prove the feasibility of the project and relied on IONIC and Cordova, because JavaScript was a flexible language that could be used for desktop applications. In the AWS environment I used Elastic Beanstalk as EC2 instance and S2 Storages for file storage. As database I used MySQL as RDB instance. Other instances such as authentication and authorization via AIM were used and a proxy for secure dial-in to the cloud network. To make the application offline capable I stored the custom portion of the MySQL database to the end user via SQLLite file on the file system of the end device.

Result
The customer received a flexibly deployable app with which he could use the installation checks at the end customer's premises, with or without Internet access, and use any end device for this purpose.
www.siemens-healthineers.com

| 12/15 - 04/16 | SW-Developer | Bosch GmbH | *Background*
The customer used Excel and MS Access for automated ordering from parts lists and wanted a modern and up-to-date application for this.

Action
We analyzed the existing Excel application, which included logic for importing from catalogs, for automated orders if the minimum stock level was reached and automated notifications to the responsible persons. I then imported the data from MS Access into an MS SQL database and used the entity framework as the data access | C#, MS SQL, MS Access, Excel, VBA, Visual Studio, SVN |

layer. Based on this, I created an MVVM pattern and displayed the data via data binding in the XAML application so that it could be edited and administered by the users. For this purpose I integrated standard CRUD commands and gradually implemented the functionalities of the previous macro tool and presented them to the customer for testing.

Result
The customer received a modern application which is intuitively usable for him and meant less training time for new colleagues.
www.bosch.de

| 11/15 - 01 /16 | SW-Developer | Bosch GmbH | *Background* The customer used to use Excel and MS Access for master data management in his warehouse and now wanted a more modern application.

 Action Import the Excel data into an Oracle database and create a WPF UI with XAML to display, edit, group, map, filter and delete data.

 Result The customer received a WPF application that was more intuitive to use than the previous Excel tool. www.bosch.de | C#, Oracle DB, VBA, Excel, MS Access, SVN, Visual Studio |
| 11/15 - 04/16 | SW-Developer, Data Analyst | Siemens Healthcare GmbH | *Background* A tool based on ASP Classic was used to survey customer satisfaction. Unfortunately, there were always incomplete data, so it was necessary to investigate more closely and optimize the tool.

 Action Search and export of requested data sets as well as optimization and | ASP Classic, MS SQL, SVN |

			extension of the ASP Classic application to new browser and server requests. *Result* The customer received meaningful data on customer satisfaction. www.siemens-healthineers.com	
10 / 15 - 04 / 16	SW-Developer, Data Analyst, Data Engineer, Help Desk Support	Siemens Healthcare GmbH	*Background* For the administration of contract data within the company, LiveLink was used as DMS. Here, there were always difficulties with the formatting of the data, with import and export and with comprehensible and automated reports. *Action* Accepting ticket requests and manipulating the data in an Oracle database using views and tables. In addition, modules for import and reporting were used in the front-end of the application, which were reprogrammed with OpentText to meet individual requirements. *Result* The customer received a clean overview of his contract data. www.siemens-healthineers.com	LiveLink, Oracle DB, PL/SQL, JavaScript, Opentext, SQL Developer
07 / 15 - 12 / 15	SW-Developer, Data Engineer, Data Analyst	Siemens Healthcare GmbH	*Background* The customer had numerous medical devices in use worldwide, where it was unclear whether they were being used, whether they were being used properly, whether they had technical defects or whether they needed to be tested again. *Action* For this we have an interface, which receives all log files of the medical devices and different SQL quality routines. First of all, the data had to be imported automatically via a .NET	MS SQL, SQL Integration Services, XSLT & DTD, Stored Procedures, C#, Visual Studio, SSRS, SSAS

importer and then imported into a DataStorage database using T-SQL scripts. There the data was read out row by row and queued in message queues, after which an SSIS routine imported the data with DTD and XSLT schemas into a staging database. The data was then prepared for analytics purposes with T-SQL and imported into a data warehouse. From there, the data was evaluated with SQL Analytics and visually displayed with SQL Reporting Services, so that it was clear at a glance what measures were necessary.

Result
Higher quality of medical devices at the customer's site and lower probability of damage to the patient due to a defect in the devices.
www.siemens-healthineers.com

09 / 12 - 07 / 15	Trainee, Data Analyst	PRISMA Informatik GmbH	*Background* It should be possible to automatically generate reports in Qlik and to send them to the responsible persons in a time-controlled manner. *Action* For this purpose I programmed a .NET application, which got an existing Qlik file and an e-mail recipient as parameters and printed a PDF report from the Qlik file. Afterwards I hosted and configured the application as a Windows task on a Windows server. *Result* The customer received an application that allows him to receive reports about the company's development in his mailbox at a scheduled time. www.prisma-informatik.de	C#, QlikView, Microsoft Dynamics NAV, MSSQL, Windows Tasks, PDF Reports, SharePoint, Visual Studio, TFS
09 / 14 - 12 / 14	Trainee, SW-Developer	PRISMA Informatik GmbH	*Background* In Qlik at the time, there was no way to	C#, QlikView, Microsoft

			import data from Dynamics CRM, automated via a Qlik data connector.	Dynamics CRM, MSSQL, SharePoint, Visual Studio, TFS
			Action For this purpose I programmed a .NET Assembly, which reads the data in pieces via the API of Dynamics CRM and mapped them into a data format readable by Qlik. Then I used the API of Qlik to output the data.	
			Results The customer was now able to import and run CRM data directly from Qlik without manual exports and imports. www.prisma-informatik.de	
01 / 12 - 04 / 14	Trainee, SW-Developer	PRISMA Informatik GmbH	*Background* Customers should be able to select ERP data from Dynamics NAV and have it visually displayed in Qlik. Without background knowledge of the Dynamics NAV database model,	C#, Microsoft Dynamics NAV, QlikView, MSSQL, SharePoint, Visual Studio, TFS
			Action For this purpose, I programmed an application in Microsoft Dynamics NAV that allows the customer to select data from various tables, merge them into a common table and, based on this, dynamically generate a Qlik script. This script was transferred to Qlik via .NET Assembly and executed.	
			Result The customer was then able to select data for Qlik from within the ERP system and have it displayed visually in Qlik without leaving the application in Dynamics NAV. www.prisma-informatik.de	