Marco Klein
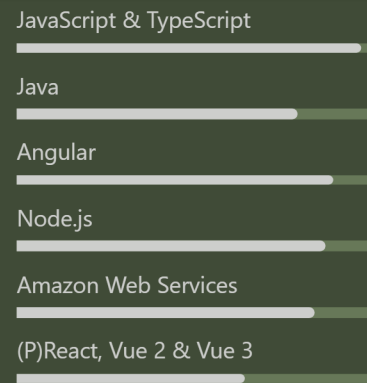### Senior Software Engineer

Full-stack software engineer located near Cologne with a great passion for developing products from end to end
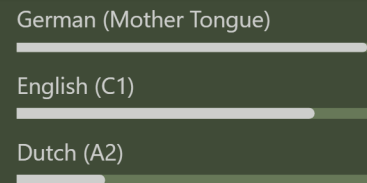
CONTACT

- Hobart2967
- codewyre
- https://marcoklein.engineer

SKILLS SPOTLIGHT

JavaScript & TypeScript

Java

Angular

Node.js

Amazon Web Services

(P)React, Vue 2 & Vue 3

LANGUAGES

German (Mother Tongue)

English (C1)

Dutch (A2)

PERSONAL INFORMATION

DATE OF BIRTH
1992

CURRENT RESIDENCE
Cologne / Bonn Area, Germany

EMPLOYMENT HISTORY

SENIOR FULL STACK SOFTWARE ENGINEER
July 2023 - Current

Belonio
Belonio GmbH, *Münster*

- Technical implementation and drafting of additional internal billing processes
- Adaption of benefit payment processes
- Maintenance and centralization of development tools, like CI/CD using GitHub Actions
- Drafting and implementation of complex infrastructures using Amazon Web Services, e.g. Lambda, DynamoDB, S3, CloudFront, API Gateway, etc.
- Maintain and improve essential processes within the Java / SpringBoot based core application
- Implement and maintain complex system & process management frontends using Angular
- Third-Level application support together with the customer support team
- Design agile team processes, tech (debt) strategies & workflows

`AWS Serverless Stack + EC2` `Java` `TypeScript` `Node.js` `Angular` `SpringBoot`
`Terraform & Serverless Framework`

SENIOR FULL STACK SOFTWARE ENGINEER
February 2018 - June 2023

TRUSTED SHOPS
Trusted Shops GmbH, *Cologne*

- Lead and train IT apprentices
- Build a consumer backend for self-servicing with Angular
- Search engine optimized website using Angular Universal
- Create real-time application for managing business tasks using AppSync and GraphQL
- Build a reusable micro-frontend platform offering all common services and features to make other teams keep focusing on their business product. Created in a technology agnostic way, utilizing AWS, NPM, Angular, React, Preact and many more
- Create a reusable control library. Built using Web Components
- Build REST APIs based on Node.js, hosted in Amazon Web Services using ApiGateway, DynamoDB, Lambda and more
- Implement a modular documentation platform for composing documentation artifacts like OpenAPI Specs, Markdown or HTML pages. Done using AWS like S3, Lambdas, or CloudFront
- Create a modular on-demand test environment for distributed micro-services and -frontends using docker & Node.js

`AWS Serverless Stack + EC2` `Java, TypeScript, Python` `Node.js` `Angular, (P)React, Vue`
`SpringBoot & JSF, Primefaces, etc.` `Terraform & Serverless Framework` `Docker`

FULL STACK SOFTWARE ENGINEER
February 2014 - January 2018

SERVICEWARE
PMCS.helpLine Software Group, *Hürth*

- Cross-Platform development with Cordova & Electron
- Working abroad for 50% at the Dutch site of the company
- Integration of two fully independent but complementing systems to build an end-to-end use case. Implemented using WCF and SignalR
- Implement a Mobile Hybrid App using Capacitor/Cordova, offering push notifications and native device integration
- Extend Rich Client written in WPF by various features
- Mobile App Development for Android (native SDK) and iOS (Xamarin for iOS)

`C#` `.NET` `ASP.NET MVC` `ASP.NET Rest API` `Node.js` `Capacitor/Cordova, Xamarin`
`WPF & WinForms` `Native Android App` `Microsoft TFS` `Microsoft Lab Management & VMM`

Marco Klein
Senior Software Engineer

EDUCATIONAL PRACTICE

APPRENTICESHIP "COMPUTER SCIENCE EXPERT - APPLICATION DEVELOPMENT"
📅 2011 - January 2014

PMCS.helpLine Software Group, *Hürth*

ⓘ See "Education" for more information

PC MANUFACTURER
📅 2010 - 2011

Grey Computer GmbH, *Wesseling*

INTERNSHIP: IT ADMINISTRATION
📅 June 2009

Mauser Germany, *Brühl*

INTERNSHIP: DEVELOPMENT & QUALITY ASSURANCE
📅 June 2007

EA Games / Bright Future GmbH, *Cologne*

EDUCATION

BACHELOR OF SCIENCE – BUSINESS INFORMATION SYSTEMS
📅 2011 - 2014

Europäische Fachhochschule, *Brühl*

- Integrated Degree Programme: Combination of apprenticeship, internships and university

APPRENTICESHIP "COMPUTER SCIENCE EXPERT - APPLICATION DEVELOPMENT"
📅 2011 - January 2014

PMCS.helpLine Software Group, *Hürth*

- Introduce a on-demand testing environment using MS TFS, MS VMM and MS Test Manager
- Integration of two fully independent but complementing systems to build an end-to-end use case. Implemented using WCF and SignalR
- Improve the ASP.NET Web Application by different customer desires
- Single-Page Application development using angular.js
- Create a fully automated reporting system aggregating weekly software release progress data
- Crystal Reports templating
- Different system setups and templating, including Windows Server Systems with required services (IIS, MSMQ, etc)

HIGH SCHOOL DIPLOMA / ABITUR
📅 2011

Max-Ernst-Gymnasium, *Brühl*

CERTIFICATIONS & WORKSHOPS

INSTRUCTOR CERTIFICATE / AUSBILDERSCHEIN - IHK AEVO
📅 July 2021

IHK, *Cologne*

- Grants me to instruct apprentices and train them to become, e.g. a Computer Science Expert

ANGULARJS AND JAVASCRIPT ADVANCED WORKSHOP
📅 May 2016

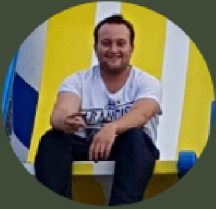**MICROSOFT CERTFIED SOLUTIONS DEVELOPER 70-480: PROGRAMMING HTML5 + CSS3 + JS**
📅 2014

ENGLISH REFERENCE LEVEL C1
📅 2014

**MICROSOFT CERTIFIED TECHNOLOGY SPECIALIST (MCTS 70-511)**
📅 May 2012

MARCO KLEIN
SENIOR SOFTWARE ENGINEER

CONTACT

- Hobart2967
- codewyre
- https://marcoklein.engineer

TECHNICAL EXPERIENCE

PROGRAMMING & SCRIPT LANGUAGES

- TypeScript / JavaScript
- PHP
- C#
- Python Medium
- Java
- C++ Basic
- Go Basic

FRAMEWORKS

- angularjs & Angular
- Preact & React
- Vue 2 & Vue 3
- Node.js (more than a framework!)
- .NET with WinForms, WPF and ASP.NET Web Api

OPERATING SYSTEMS

- Windows
- Linux
- Mac
- Android
- iOS Basic

OTHER

- nginx & Apache
- Vue 2 & Vue 3
- Yeoman
- Terraform
- Amazon Web Services
- Browsers, Cordova & Electron
- GraphQL
- DynamoDB
- MySQL & MSSQL, PostgreSQL
- Git, CircleCI & Azure DevOps / MS TFS, Jira
- IntelliJ, Visual Studio & Visual Studio Code

PRIVATE PROJECTS

PERSONAL PROJECT: GWEN (GAME WITHOUT EXTRAORDINARY NAME)

Not public, work in progress   C# & .NET   Godot 4   MariaDB / MySQL

- Hobby Game Development Project
- MMORPG, based on my preliminary game experiences (e.g. World of Warcraft, LOTRO)
- Clustered Game Server System

PERSONAL PROJECT: SKWID

codewyre/skwid   Node.js   TypeScript

- Skwid (/skwɪd/) is a tool aiming to be the command center of a software project
- Written in TypeScript & Node.js -> Usable cross-platform

PERSONAL PROJECT: STRAWBERRY-PY

Hobart2967/strawberry-py   Python   AWS Lambda   AWS ApiGateway

- Library for building simple serverless API lambdas, analog to SpringBoot / .NET REST API frameworks
- OpenAPI Specification support

PERSONAL PROJECT: CODENAME "FARSIGHT"

Not public, work in progress   Node.js   TypeScript   Electron   Cordova

- Cross platform client & server application for communication services
- Utilizing Browsers, Cordova, Electron and Node.js
- Serverless Implementation

SYSTEM DEVELOPER & ADMINISTRATOR @ AVSN.DE

2006 - Current   PHP   MySQL   TypeScript   Node.js   angular

- Maintenance of an old legacy PHP System
- Recreation of the whole website in a Node.js environment with express.js and Angular