# Marco Klein
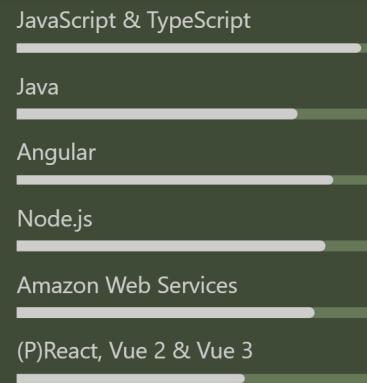## Senior Software Engineer

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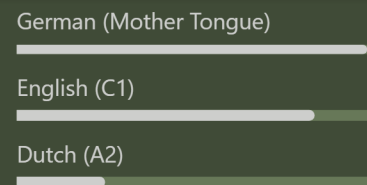
CONTACT

- 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
📅 **September 2025 - Current** 🏢 TIMOCOM GmbH, *Erkrath / Düsseldorf*

- Technical implementation and drafting user login processes
- Implementation of Keycloak within the company's product infrastructure
- Maintenance and centralization of development tools, like CI/CD using GitLab
- Drafting and implementation of complex infrastructures using Azure, Kubernetes and Docker
- Maintain and improve existing Spring Boot applications
- Third-Level application support
- Monitor, debug and fix application system issues

Azure Kubernetes Docker TypeScript Node.js React SpringBoot

SENIOR FULL STACK SOFTWARE ENGINEER
📅 **July 2023 - August 2025** 🏢 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 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
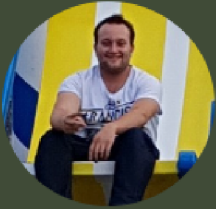
FULL STACK SOFTWARE ENGINEER

📅 **February 2014 - January 2018**

🏢 PMCS.helpLine Software Group, *Hürth*

SERVICEWARE

- 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 |

EDUCATIONAL PRACTICE

APPRENTICESHIP "COMPUTER SCIENCE EXPERT - APPLICATION DEVELOPMENT"

📅 **2011 - January 2014**

🏢 PMCS.helpLine Software Group, *Hürth*

SERVICEWARE

ⓘ See "Education" for more information

PC MANUFACTURER

📅 **2010 - 2011**

🏢 Grey Computer GmbH, *Wesseling*

GREYCOMPUTER COLOGNE GMBH

INTERNSHIP: IT ADMINISTRATION

📅 **June 2009**

🏢 Mauser Germany, *Brühl*

MAUSER Packaging Solutions

INTERNSHIP: DEVELOPMENT & QUALITY ASSURANCE

📅 **June 2007**

🏢 EA Games / Bright Future GmbH, *Cologne*

EA GAMES

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"
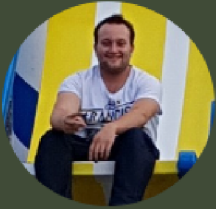
📅 **2011 - January 2014**

🏢 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*

Marco Klein
Senior Software Engineer

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

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	
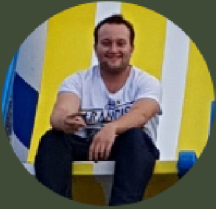
MARCO KLEIN
SENIOR SOFTWARE ENGINEER

CONTACT

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

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