

# Maximilian Schrupp

## Software Engineer and Architect

**About Me** I'm a software engineer with 12 years of experience. As a functional lead for 5 years, I have been building and leading highly successful teams. My main expertise lies in delivering cloud-native software, but I also possess in-depth knowledge and experience in technical areas such as IoT and computer vision. I am well-equipped to tackle complex challenges and deliver innovative solutions. In addition to my technical skills, I am an effective communicator, drive product strategy, lead design discussions and enable cross-team collaboration.

## Education

**2009 - 2013, Technical University of Applied Sciences, Augsburg**  
Bachelor of Science, Informatik

## Experience

### **02/2022 - present, Senior Staff Engineer, Celonis**

- Wide responsibility as leading engineer in Strategy & Innovation group
- Identification and driving of innovation projects across all product pillars and whitespaces/adjacent areas
- Initiation of greenfield/brownfield projects together with PM, staffing of implementation team
- End-to-end ownership of engineering delivery
- Implementation of standard-defining MVPs & prototypes, speeding up and guiding productionization
- Successfully proved two major projects paying into company vision, both validated with customer & now in productionization

node.js/ Typescript, Golang (cloud - AWS)  
Kubernetes (EKS; self-managed k3s) - Neo4j, Postgres, sqlite  
SQS, SNS, RDS (AWS) - Tailscale  
GitHub/Actions, Terraform, Helm, Flux (DevOps)

### **2019 - 2022, Senior IoT Solution Architect & Engineer, tresmo**

- Technical lead in multiple projects and teams
- Customer requirements evaluation and solution design
- Project scoping, taking architectural decisions
- Hands-on implementation of a multitude of challenges around edge device deployment and management, orchestration and cloud integration, connectivity, security and cryptography, timeseries data, sensor systems, etc.
- Delivered multiple large and medium-sized IoT & Cloud projects

Golang, node.js/ Typescript (edge/cloud - Azure, Heroku, on-prem)  
Kubernetes - Postgres/Timescale, Redis, Wireguard  
IoT Hub/Edge, Event Hub, Event Grid, Functions (Azure)  
Helm, Terraform, Azure DevOps, GitLab (DevOps)

### **2019 - 2020, Software Engineering Consultant, self employed**

- Consultance of a software agency, hands-on training and enablement for their team to ramp up on a cloud-native stack

Maximilian Schrupp  
mschrupp@posteo.de

Munich, Germany

## 2018 - 2019, *Software Architect/Engineer, SAMSON Pilotentwicklung*

- Design & implementation of an IIoT architecture for SAMSON's measurement and control systems and their operations, spearheading SAMSON's digital transformation
- Prototypic implementation of an IIoT orchestration system and an example application to serve as SAMSON's blueprint for digitization projects
- Requirements included IoT device management, edge application orchestration and highly reliable offline capabilities

Golang (edge/cloud) - Kubernetes @ x86/ARM, Wireguard  
Prometheus, Grafana, TimescaleDB (Observability)  
GitLab, Helm, Terraform (DevOps/IaC)

## 2014 - 2017, *Senior Technology Strategist, SAP Hybris*

- Software Engineer & emerging technology specialist at *Hybris Labs*, a research/rapid prototyping team
- End-to-end ownership of conceptualization and implementation of numerous prototypes based around the *Internet of Things* and *Virtual Reality*, but also other topics and their application together with the Hybris products
- We pioneered *IoT in Retail*

Javascript/node.js (web/edge/cloud - AWS) - C/C++ (Arduino, ESP32)  
Unity, C#, HLSL (VR)

## 2012 - 2014, *Software Developer, Docuware GmbH*

- Research for my bachelor thesis: real-time image processing for document scanning
- Implementation of thesis as iOS/Android app "*PaperScan*"

Objective C - Java/Android, JNI, C - OpenGL ES, GLSL, EGL

## 2009 - 2012, *Working Student, diverse companies*

# Notable skills

## Soft skills

- Strong leadership & team building as Team Lead/Staff Engineer
- Very diplomatic & empathic nature, strong motivator, good conflict solving skills
- Strong communicator, in & between teams, to adjacent roles and to upper management
- Self-aware and -reflecting person
- Willing to step up: taking ownership of challenges *and* mistakes

## Tech

- node.js (9 years, 4 years with Typescript), Golang (4 years)  
Expertise in shell scripting, strong with many other languages
- Deep understanding of Linux, Containers, Kubernetes and ecosystem
- Strong experience with concurrent (GPGPU background) and distributed systems (cloud & similar)
- 10+ years experience with RDBMS, 4+ years with noSQL
- Hands-on experience through entire computing stack (from PCB & MCUs up to cloud & web)
- Strong experience in networking
- Strong experience with streaming, message brokers and related
- Track record of delivering complex projects using BDD (cucumber/Gherkin)