

ANIRUTHAN MALA ELANGO VAN

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SUMMARY

Software engineer with 8+ years across TypeScript/Node.js & Golang on Kubernetes and Azure. Shipped SICK AG's sensor deployment platform to 1000+ enterprise customers, saving ~USD 2M/yr. Cursor Ambassador building MCP integrations for LLM agents; 1300+ Stack Overflow answers.

EXPERIENCE

- **SICK AG** Waldkirch, Germany
Jun 2022 - Present
Software Engineer
 - **Full-Stack Development:** Built the sensor software deployment platform end-to-end: REST API, RBAC console and digital twin telemetry service across Angular, NestJS and Electron. Deployed on Kubernetes with ArgoCD and GitLab CI/CD, replacing a manual delivery workflow for 1000+ enterprise customers.
 - **Data & Cloud Engineering:** Contributed the schema for Neo4j-backed data ontology underpinning company wide digital twin strategy and consolidated 3 siloed distribution tools into one unified product. Hardened read path with distributed Redis caches (p95 under 50ms) on Azure AKS with zero downtime rolling deploys.
 - **AI & Emerging Technologies:** Built bearer auth MCP servers exposing the package browser API to LLM agents and GitHub Copilot workflows. Founded reusable *awesome skills* repo adopted across multiple teams. Drove practical AI assisted development adoption via demos and guidance.
 - **Quality & Collaboration:** Delivered 4x throughput gains by profiling blocking Node.js libs with 0x flame graphs. Built tests across unit, integration and E2E layers (>95% branch) via Jest & Playwright. Dockerized runners cut CI feedback ~40%. Authored ADRs, drove design and code reviews and mentored junior engineers.
- **Siemens Mobility GmbH via infoteam Software AG** Erlangen, Germany
May 2018 - May 2022
Software Engineer
 - **Full-Stack Development:** Used domain sharding via embedded BIND9 DNS (CNAME) to bypass Chromium's 6 connections per host limit. Built driver train control HMI in Angular and Python microservices across 2 train platforms. Nginx reverse proxy with Digest Auth and SSE from multiple onboard sensors (sub-100ms).
 - **Quality Assurance & Testing:** Authored BDD scenarios from technical specs in Python Behave. Automated regression replaced manual release sign-off, cutting regression cycle from 4 to 2 days.
 - **Collaboration & Leadership:** Drove sprint planning, user stories and acceptance criteria. Provided technical input to architects on safety critical requirements and led client sprint reviews.
- **Fraunhofer-Institute IWM** Freiburg im Breisgau, Germany
Jun 2017 - Apr 2018
Research Assistant
 - Simulation of high-speed adiabatic shearing, data ETL pipeline and plotting in Python with NumPy & matplotlib.

SKILLS

- Languages TypeScript, JavaScript, Golang, Python, HTML, CSS, Bash, C++
- Frameworks Node.js, NestJS, Angular, RxJS, Electron, Jest, Playwright, React, Svelte
- Data & Storage Neo4j GraphDB, Redis, PostgreSQL
- DevOps & Tooling Git, Docker, Kubernetes, ArgoCD, GitLab CI/CD, GitHub Actions, Figma
- AI & LLM Tooling MCP servers, Cursor, GitHub Copilot, LLM agent workflows
- Platforms Debian, AWS, Azure, Cloudflare, NixOS

EDUCATION

- **Friedrich-Alexander-University** Erlangen, Germany
Oct 2014 - Mar 2018
Master of Science in Computational Engineering; Final Grade: 1.9

COMMUNITY & LEADERSHIP

- **Cursor Ambassador (Freiburg):** Lead local developer community through meetups, build sessions and workshops on AI-assisted development for all experience levels.
- **Stack Overflow:** 1300+ answers, 31k+ reputation .

CERTIFICATES & TRAINING

- telc Deutsch Europaratsstufe (German) B2 Nov 2021
- Functional Safety IEC 61508 of E/E/EP Systems Sep 2020
- AWS Certified Solutions Architect - Associate (Expired) Jul 2020

LANGUAGES

- English & German (Full Professional Proficiency), Tamil (Native)