

Sai Mohana Vamsi Krishna Maddi

Senior Full Stack Engineer | Cloud (AWS, Azure, GCP) and Applied AI (RAG, Vector Search)

sai@saimaddi.dev | +49 178 8182482 | [linkedin.com/in/sai-maddi](https://www.linkedin.com/in/sai-maddi) | saimaddi.dev
Darmstadt / Frankfurt Rhine-Main area, Germany | EU Blue Card (valid until 2029)

PROFILE

Senior full stack engineer with 10 years in TypeScript, JavaScript, React, Next.js and Node.js on AWS, Azure and Google Cloud. Builds applied AI products: RAG, vector search and LLM features on pgvector and OpenSearch. Integration background: five years with TIBCO BusinessWorks, MuleSoft certified, ERP and API integrations. Led development of LocLab Cloud, Hexagon's digital twin platform. Has led teams of 4 to 20 engineers. Works in English day to day.

SKILLS

Programming Languages: TypeScript, JavaScript, Python, Java, SQL

Full Stack: React, Next.js, Node.js, NestJS, GraphQL, REST APIs

Applied AI and Search: RAG, OpenAI API, Gemini, Vertex AI, pgvector, OpenSearch

Cloud and Integration: AWS, Azure, Google Cloud, PostgreSQL, Docker, Kubernetes, TIBCO BusinessWorks, MuleSoft

WORK EXPERIENCE

Burk Consulting GmbH

09/2026 – Present

Senior Full Stack Developer, internal product (Profiler) | Frankfurt am Main, Germany

- Building Profiler, an internal staffing tool that turns bench consultants' profiles into keyword searches, queries external project portals directly and scores each match with the reasons behind it.
- Delivers a ranked list of the top 50 open projects for the bench, shown in React and Three.js dashboards.
- Added a CV builder that converts existing CVs into the Burk Consulting format, plus AI-assisted staffing suggestions.
- Runs on Azure: Static Web Apps, Azure Functions, PostgreSQL and Blob Storage for CVs, with Microsoft Entra ID sign-in and candidate data handling designed for GDPR.

Stack: React, Vite, Tailwind CSS, Three.js, Azure Functions, Static Web Apps, Blob Storage, vector database

Loclab Consulting GmbH (Hexagon AB) — via Burk Consulting GmbH

04/2024 – 08/2026

Senior Full Stack Developer, Lead Developer | Germany

- Replaced a Windows-only desktop tool with LocLab Cloud, a browser-based digital twin platform used by German enterprise clients in rail and industry; led a team of 5.
- Owned architecture and code review for a Next.js, TypeScript and GraphQL application in an Nx monorepo; integrated ERP (myfactory) and maintenance (Limble CMMS) systems through secured API proxies.
- Delivered DCC Search: keyword, semantic and image-based search across a 3D asset library, using OpenAI embeddings, a vision API and OpenSearch.
- Fully automated Unity bundle builds in the cloud with headless Unity and Python scripts, triggered from the web app: even small model changes reach production without a modeller or developer building by hand.
- Embedded a 3D Twin Viewer (Unity WebGL, WebGPU) and ran delivery on AWS (Cognito, Lambda, S3, CloudFront) with Docker, Kubernetes and GitLab CI/CD across four environments.

AI initiatives at Loclab

- Meynd (RAG): designed and built solo, from spec to deployed MVP, a skill-matching platform that extracts skills from CVs and tender documents and ranks matches with hybrid keyword and pgvector search.
- Grounded Meynd's question-answering in real data, with PII redaction before any model call and EU-only model regions for GDPR (NestJS, Prisma, Vertex AI, Gemini, Cloud Run).
- Two proofs of concept: Zählwerk counts moved boxes in warehouse video with zero-shot YOLO-World detection, demoed to a prospective client; VoiceScribe turns speech into bilingual documents with Gemini.

Stack: Next.js, React, TypeScript, GraphQL, Node.js, NestJS, pgvector, OpenSearch, Python, Unity, AWS, Kubernetes

PayPal — via Altimetrik India Pvt Ltd

11/2022 – 04/2024

Senior Full Stack Developer / Technical Lead (official title: Senior Engineer) | Hyderabad, India

- Replaced manual triage of recurring credit card payment issues with an internal portal that classifies and resolves them in a single workflow for the servicing team.
- Led a team of 4 on a churn-prediction and retention-offer proof of concept, approved for the next development phase; served as Scrum Master for three months.
- Built React and Node.js (KrakenJS) components to WCAG accessibility standards for credit card servicing.
- Actively participated in recruitment at Altimetrik, interviewing candidates for full stack roles.

Stack: React, Node.js (KrakenJS), TypeScript, REST APIs, Azure DevOps

Blue Yonder — via Apisero India Pvt Ltd**10/2021 – 10/2022***Team Lead, Full Stack Development (official title: Senior Lead Engineer) | Hyderabad, India*

- Served as Apisero's lead for about 20 engineers on the Blue Yonder account: trained them in React, supported their projects and represented the team to the client.
- Directly led a delivery team of 7: supervised delivery, reviewed pull requests, ran client demos and mentored engineers on escalated projects.
- Set architecture and code review standards for GraphQL integration across a React micro-frontend supply chain platform.
- Established shared component patterns and testing conventions across teams, and led the build of a new e-commerce site.
- Actively participated in recruitment at Apisero, interviewing candidates for full stack roles.

Stack: React, GraphQL, TypeScript, Node.js, micro-frontends**NielsenIQ — via TIBCO Software Pvt Ltd****05/2018 – 10/2021***Full Stack Developer (official title: Associate Consultant Sr) | Hyderabad, India*

- Built the Navigator data application from the ground up with React, Node.js and PostgreSQL, integrating multiple retail data-collection endpoints.
- Designed the PostgreSQL schema and role-based permission hierarchy behind vendor and auditor management.
- Owned the release lifecycle from deployment pipelines to production support; built backend services in TIBCO BusinessWorks.

Stack: React, Node.js, PostgreSQL, TIBCO BusinessWorks**United Airlines — via Tata Consultancy Services Ltd****06/2016 – 05/2018***Software Engineer (official title: System Engineer) | Hyderabad, India*

- Kept crew scheduling and bidding data consistent between a crew-facing iOS app and airline backend systems by building and validating XML/XSD message contracts.
- Configured, deployed and migrated TIBCO BW and EMS integration projects across environments for high-volume airline transaction systems.

Stack: TIBCO BW, EMS, Java, Web Services, XML/XSD**EDUCATION****Bachelor of Technology (B.Tech), Computer Science****Graduated 2016***Jawaharlal Nehru Technological University Kakinada (JNTUK), Andhra Pradesh, India | Best Outgoing Student award**Four-year degree, comparable to a German Bachelor in Informatik (anabin: H+)***CERTIFICATIONS AND AWARDS**

- Microsoft Certified: Azure AI Fundamentals (AI-900), 12/2024 | Azure Fundamentals (AZ-900), 11/2024
- MuleSoft Certified Developer, Level 1 (MCD), 11/2022
- Star Performer of the Quarter, Apisero (client: Blue Yonder), 2022
- Happy Client Award, TIBCO Software (client: NielsenIQ), 2020

LANGUAGES AND AVAILABILITY**Languages:** English C1 (working language) | German B1 | Hindi C1 | Telugu native**Work authorisation:** EU Blue Card, valid until 2029 | Permanent residence application in progress**Availability:** Notice period 2 months (negotiable) | Open to relocation within Germany