

Vishwanath Dugani.

Python, AI systems & cloud platforms

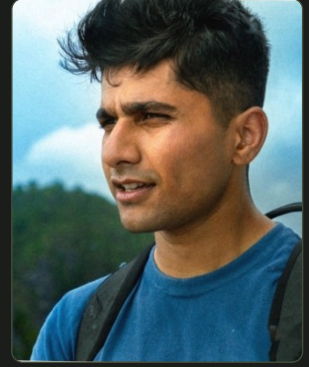
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PORTFOLIO & PROJECT WALKTHROUGHS

vishwanath-dugani.pages.dev



PROFILE

Hands-on engineering team lead building Python systems across AI, backend services, and cloud infrastructure. I lead five engineers at Simvia, set technical direction, and stay active in the code. I own delivery from architecture through testing, deployment, and monitoring, working with business leaders and product teams.

EXPERIENCE

Simvia

Apr 2024 - Present

Team Lead / Amsterdam

- Lead five engineers through architecture, design and code reviews, coaching, and hiring input. Work with the C-suite to turn GenAI strategy into shipped software.
- **Document intelligence.** Built an LLM pipeline for roughly 500 document types, covering parsing, classification, extraction, and summarisation, with evaluation, guardrails, and human feedback.
- **Compliance search.** Built RAG with embeddings, vector retrieval, and source-grounded answers. Questions that took analysts days of searching could be answered in seconds.
- **Customer onboarding.** Removed a manual configuration bottleneck with an LLM-driven workflow, bringing onboarding from weeks to days.
- **Agent integrations.** Built the MCP server and client-facing REST APIs with scoped permissions and auditable actions.
- Own AWS infrastructure, CI/CD, Pytest coverage, and Sentry monitoring. Built a configuration-driven layer so non-engineers can add document types without code.

EVBox

Jan 2021 - Mar 2024

Senior Software Engineer & Team Lead / Amsterdam

- Managed and mentored engineers while building backend services and infrastructure.
- **Charger telemetry and fleets.** Built asynchronous, event-driven pipelines and APIs for fleet status, diagnostics, remote operations, and reporting.
- Developed cloud-native services with Python, Django, FastAPI, and AsyncIO. Improved delivery and observability with GitLab CI and Docker.

EXPERIENCE / CONTINUED

EFFECT Photonics

Oct 2018 - Jan 2021

Senior Software Engineer / Eindhoven

- **Manufacturing automation.** Built the full-stack system for SFP optical transceiver production: test sequences, measurement capture, progress and yield tracking, and workflows across stations.
- Worked with physicists on device characterisation and tuning software, turning experimental methods into repeatable automated tools.
- Introduced automated and end-to-end testing, and CI/CD pipelines to standardise builds and releases across teams.

Philips

Nov 2016 - Sep 2018

Software Developer / Eindhoven

- Built Python measurement, test, and data-acquisition systems for photonics research, making manual experiments repeatable and unattended.
- Built experimental data visualisation tools and worked with scientists, C/C++ engineers, and firmware engineers on instrumentation and calibration.

EARLIER WORK

Scania / Master's thesis, Linux clusters and HPC benchmarking / Jan - Aug 2016

Watty / Data integrity analyst and summer intern / Jun 2015 - Jan 2016

Brady Corporation / Business analyst / Aug 2012 - May 2014

li2-innovations / Junior developer, self-balancing robot / May 2011 - Jul 2012

TECHNICAL SKILLS

AI & retrieval

LLMs, RAG, embeddings, vector search, MCP, tool-calling, evaluation, guardrails, human feedback.

Cloud & delivery

AWS, Docker, CircleCI, GitLab CI, GitHub Actions, Pytest, end-to-end testing, Sentry.

Backend & architecture

Python, FastAPI, Django, AsyncIO, REST APIs, distributed systems, Celery, microservices.

Data & interfaces

PostgreSQL, MongoDB, Redis, ETL, Pandas; TypeScript, JavaScript, React, Next.js, Angular, C/C++.

EDUCATION

M.Sc. Embedded Systems

KTH Royal Institute of Technology
Stockholm, Sweden / 2014 - 2016

B.E. Electrical & Electronics Engineering

M.S. Ramaiah Institute of Technology
Bangalore, India / 2008 - 2012

ADDITIONAL

Languages: English (full professional); Hindi, Kannada, Marathi (working); Dutch and Swedish (elementary).

Certifications: ISTQB Foundation; Open Water Diver. **Interests:** Bouldering and photography.