

Vishwanath Dugani.

Python, AI systems & cloud platforms

Amsterdam, Netherlands

Nationality: Dutch

+31 6 27194330 / vishwanath.dugani@gmail.com

<https://www.linkedin.com/in/vishwanathdugani/>

PORTFOLIO & PROJECT WALKTHROUGHS

<https://dugani.nl>



ABOUT ME

I'm Vishwanath, 36, a hands-on engineering team lead based in Amsterdam. I lead the engineering team at Simvia while building Python backends, AI systems, and cloud platforms. My work spans architecture, production code, platform engineering, DevOps, and infrastructure, alongside mentoring and improving how the team delivers.

EXPERIENCE

Simvia

Apr 2024 - Present

Team Lead / Amsterdam

- Lead the engineering team 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, with extraction, evaluation, guardrails, and human feedback. A configuration layer lets non-engineers add types.
- **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 public REST API with scoped permissions, tenant isolation, and a read-only guard on generated queries.
- **Platform and infrastructure.** Own the AWS estate as code with CDK: containerised services, per-team environments, versioned deploys, CI/CD, Pytest coverage, and Sentry monitoring.

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.

Vishwanath Dugani

<https://dugani.nl>

Engineering Team Lead

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

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

LANGUAGES

English, Hindi / हिन्दी and Kannada / ಕನ್ನಡ - full professional.

Marathi / मराठी - working proficiency; Dutch (Nederlands) and Swedish (Svenska) - elementary.