

Joost Visser

Software Developer & Generalist

Versatile engineer building scalable systems and developer tools. I bridge technical architecture and team communication to drive high-impact results.

Portfolio: <https://joostvisser.dev>

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Tech skills

Programming: Python, Rust, Dart, TypeScript, Java, C, C#.

Tools/Infra: Azure, Terraform, Docker, Kubernetes, GitHub Actions, Jenkins.

Frameworks: Nest.js, Svelte, Django, Flutter.

Personal skills

Communication: Facilitating cross-functional team alignment.

Presentation: Hosted technical events for audiences of 100+ people.

Mentorship: Big fan of giving workshops and raising the bar for the whole team.

About me

Languages: English, Dutch, Japanese

Hobbies: Travelling, climbing, karaoke, indie games, reading, coffee, padel

Favorite OS: Currently loving Fedora with COSMIC.

Work History

► Software Developer

Jul '24–now

AgXeed, Grubbenvorst, Netherlands

- **Cloud & IaC:** Re-architected legacy backend to distributed systems via Terraform, cutting costs by 10x and enabling auto-scaling to 100+ nodes.
- **Developer Tooling:** Engineered internal Python CLI tooling (Typer, uv) and automated NuGet deployment scripts to streamline developer workflows.
- **Computational Geometry:** Engineered high-level polygon and pathing logic, applying advanced data structures to solve geometry problems.

Tech stack: C#, Python, Azure, Terraform, CI/CD, GeoJSON, REST

► Full-stack Developer (temporary project)

Apr '23–Apr '24

ELEO, Helmond, Netherlands

- **Product Development:** Developed and designed the product's Windows tooling app and API.
- **Infrastructure & CI/CD:** Set up and implemented our CI pipeline and Azure infrastructure, increasing our test coverage from 2% to over 60%.
- **Agile:** SCRUM Master, increasing goal delivery rate from 20% to 90%.

Tech stack: Dart, Flutter, Nest.js, Svelte, C++, Azure, Terraform, PostgreSQL

► Embedded Software Engineer

May '21–Mar '23

Lightyear, Helmond, Netherlands -- Vacated position due to bankruptcy

- **CI/CD & Infrastructure:** Established Python infrastructure, test frameworks, and automated CI tooling to support hardware integration.
- **Version Control:** Introduced versioning, changelogs, and trunk-based development to stabilize the codebase.
- **Technical Leadership:** Organized quarterly alignment events and workshops to bridge knowledge gaps across engineering teams.

Tech stack: Python, C, CircleCI, Docker, Git, CAN, CCP, SonarQube, Rust

► Algorithm Developer

Apr '20–Apr '21

SmartQare, Eindhoven, Netherlands

- **MDR Compliance:** Led a data-driven literature analysis of 1,000+ papers to secure clinical evidence for medical approval.
- **Biomedical Algorithms:** Engineered a reliable fall-detection algorithm.

Tech stack: Python, Jupyter notebook, Confluence

► University Teacher in Algorithms & Data Structures

Apr '21–May '21

Avans University of Applied Sciences, Breda, Netherlands

Qualifications

► MSc - Computer Science - Cum Laude (TU/e)

Sep '16–Feb '20

Eindhoven University of Technology, Netherlands

- **Published AI paper:** unsupervised object localisation (StampNet).
- **Exchange:** Research in game AI at Tohoku University, Japan.
- **Leadership:** Served as chairman for the Japanese culture association.
- **Competitive Programming:** placed first in the Netherlands at NWERC 2016.

► BSc - Software Science (TU/e)

Sep '12–Jan '16

Highlights

► **Conference Paper - StampNet** Sep '19
IEEE - International Conference on Image Processing
Published my master thesis on a novel neural network architecture for unsupervised multi-class object localisation.
• **Publication:** <https://arxiv.org/abs/1902.02693>

► **Exchange Japan** Apr '19–Aug '19
Tohoku University, Sendai, Japan
Conducted research at one of the top universities in Japan.
• **Research:** Received 'AA' grade for reinforcement learning research project.
• **Language:** Received 'AA' grades for both B1 Japanese language courses.

► **Chairman Kinjin** Sep '17–Sep '18
Japanese culture association Kinjin, Eindhoven
• **Operations:** Successfully relocated headquarters and restructured administration and website.
• **Event Management:** Led and organised our largest-ever festival for the association's lustrum.
• **Partnerships:** Organised collaborations including talks and movie screenings with local cinema.

► **NWERC - European Algorithm Contest** Nov '15, '16, '17
Linköping University, Linköping, Sweden
Bath University, Bath, United Kingdom (2x)
Qualified for NWERC three years in a row after passing both Eindhoven and Benelux preliminaries in this international programming contest.
• **Top Result:** Ranked #1 Dutch team at NWERC 2016 (13th of 114 overall).

► **Exchange Sweden - Embedded Systems** Sep '14–Jan '15
Mälardalen Universität, Västerås, Sweden
• **Results:** Got 'pass with credit' or 'pass with distinction' for all courses.

Projects

► **Portfolio Website** May '24
Eindhoven, Netherlands
My own personal portfolio website: <https://joostvisser.dev>.
• **Infrastructure:** Self-hosted on a Kubernetes cluster with CI/CD pipeline.
Tech stack: TypeScript, Svelte, Kubernetes, Github Actions, Tailwind, Node.js

► **Fortune Slip Generator** Apr '23 – Jul '23
Eindhoven, Netherlands
A configurable CLI tool that generates printable PDF fortune slips for events.
• **Modularity:** Fully configurable design via YAML configuration.
Tech stack: Rust, Github Actions

► **Cafetaria Website** Feb '16–Apr '16
Horeca Recreatiebad Stappegoor, Tilburg, Netherlands
A full-stack web application for the cafeteria of swimming pool Stappegoor.
• **Reliability:** Ran in production for multiple years without issues.
Tech stack: Ruby on Rails, Bootstrap, HAML, SCSS, Coffeescript