Daan E. Rosendal

Zurich, Switzerland

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PROFESSIONAL EXPERIENCE

Software Engineer (Full-time)
Lakera — AI security startup, acquired by Check Point for $300M

Sep 2025 – Present
Zurich, Switzerland

- Developing Lakera Guard, an AI security API protecting agents and applications by screening for prompt injections, data leakage, and content violations at sub-50ms latency for Fortune 500 clients, using Python, Go, and Kubernetes
- Identified and engineered a 75% reduction in Kafka infrastructure costs through compression and batching, cutting projected annualised spend from $800K to $200K for a single 5k RPS client and saving millions across all clients

Cloud Solution Architect (Intern)
Microsoft — Big Tech company empowering billions of users

Feb 2025 – Aug 2025
Amsterdam, The Netherlands

- Designed and implemented cloud architectures for enterprise clients to create Azure solutions with high availability, security, and scalability, using Azure, Python, C#, PostgreSQL, Kubernetes, Docker, RabbitMQ and GitHub Actions
- Developed a multi-agent MCP solution for an enterprise client, using Python, Azure AI Foundry, and Semantic Kernel

Full-Stack Software Engineer (Intern)
CERN — European Organisation for Nuclear Research | Open Data (700+ ⭐) 🗗 | REANA (100+ ⭐) 🗗

Feb 2023 – Mar 2024
Geneva, Switzerland

- Built a system that improves on-demand production and publishing of the particle accelerator's open data streams, allowing physicists all over the world to access 55 petabytes of LHCb data, using Go, JavaScript, React and npm packaging
- Enhanced REANA with workflow-sharing functionality in the web UI and CLI, earning a Poster Award by popular vote at the 2024 Conference on Computing in High Energy and Nuclear Physics; used Python, Flask, Go, Conda and React
- Set up 3 robust DevOps pipelines with automatic redeployment using Kubernetes, Docker, Helm, and GitLab CI/CD
- Received consistent praise for excellent performance in both technical and social competencies across 5 evaluations

Owner (Side Hustle)
Rocket League Training & Coaching Service

Jan 2017 – Jan 2024
Remote, The Netherlands/Switzerland

- Leveraged my Rocket League skills as a top 50 player worldwide to help clients all over the globe obtain their desired rank
- Created and maintained a Discord server with over 500 customers which led to a 200% increase in orders

Full-Stack Software Engineer (Part-time)
Print.one — Direct mail automation startup

Dec 2021 – Jan 2023
Zwolle, The Netherlands

- Developed a scalable microservice architecture that is capable of handling 10,000+ simultaneous requests to automate printing and sending personalised postcards, using TypeScript, React, Next.js, Tailwind, C#, GCP, Docker and Terraform
- Measured the performance of different database management systems that are compatible with GCP and Prisma, and found that PostgreSQL was 2 times more efficient for this project's use case than the used DBMS (MySQL)

Software Engineer (Part-time)
Univé — Insurance company with over two million clients

Apr 2021 – Dec 2021
Zwolle, The Netherlands

- Saved paralegals 20 hours per week by developing various single-page applications (SPAs) for the legal aid department (e.g., registering a legal case, adding documents to a legal case, filing complaints), using TypeScript and Angular
- Created and led application presentations and sprint reviews to keep investors and stakeholders informed

Software Engineer (Intern)
Deltion College — Educational institution with over 20,000 students

Feb 2020 – Jul 2020
Zwolle, The Netherlands

- Built a Progressive Web App (PWA) for the faculty of technology to replace the outdated WordPress website which led to a mobile traffic increase of 200% and a user satisfaction improvement of 75%, using PHP, Laravel and MySQL
- Led the system design process of building an infrastructure with features like load-balancing, failover, and multi-master replication, which resulted in 99.99% server availability, using Linux, HAProxy, MySQL, and UML

Software Engineer (Intern)
GWBO — Architectural engineering consultancy company

Aug 2019 – Jan 2020
Kampen, The Netherlands

- Achieved a 400% improvement in architectural drafting efficiency by building two VBA applications that automated the engineering process of translating complex physics calculations to code

EDUCATION

Master of Science in Software Engineering   Sep 2024 – Jul 2025
University of Amsterdam | Top 5% of 80 students (Cum Laude/With Honours)   Amsterdam, The Netherlands
- Thesis within Distributed ML: Resolution Strategies for Client-Level Disagreements in Federated Learning ⎋
- Courses: Distributed Computing, Software Maintainability, Requirements Engineering, Embedded Systems Design

Bachelor of Science in Software Engineering — **Minor in Data Science**   Sep 2020 – Jul 2024
Windesheim University | Top 1% of 500 students (Cum Laude/With Honours)   Zwolle, The Netherlands
- Won Swisscom's LauzHack 2023 challenge at EPFL ⎋ with a customisable chatbot capable of leveraging self-hosted LLMs
- Courses: Data Structures & Algorithms, Design Patterns, Operating Systems, Discrete Mathematics, Statistics

Intermediate Vocational Degree in Software Development   Sep 2018 – Jul 2020
Deltion College | Top 1% of 200 students (Cum Laude/With Honours)   Zwolle, The Netherlands

SKILLS

Programming Languages: Go, Python, C, JavaScript, TypeScript, C#, Java, PHP, SQL, Haskell
Frameworks: Flask, React, Angular, .NET, Laravel, Redux, Cobra, Click, Viper, Tailwind, Bootstrap
Tools: Git, Linux, Kubernetes, Docker, Helm, Redis, Terraform, Kafka, AWS, Azure, GitLab CI/CD, Scrum (PSM1)