Clarissa Röder *Software Engineer*

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💼 EXPERIENCE

Flytrap, *Software Engineer* ↗   Aug 2024 – Dec 2024
- Built a self-hosted error monitoring platform focused on simplicity, performance, and data ownership, offering SDKs for seamless integration across four platforms.
- Engineered a scalable, self-hosted AWS cloud architecture leveraging services like API Gateway, SQS, Lambda, RDS, EC2, S3, and SNS, giving users complete control over their data and infrastructure.
- Streamlined infrastructure deployment with Terraform, abstracting the creation of 60+ AWS resources into 5 steps, dramatically cutting manual setup time.
- Optimised system reliability by designing a decoupled, event-driven processing pipeline using API Gateway, SQS, and Lambda, ensuring seamless handling of high traffic.
- Designed and implemented a RESTful API using Flask, containerized with Docker for consistent deployment environments.
- Created an intuitive error management dashboard with React and Chakra UI, offering advanced filtering, detailed and interactive stack trace views, and team management features.
- Implemented advanced debugging features by securely storing source maps, enabling automatic unminification of stack traces, and extracting surrounding code for each stack frame, facilitating issue resolution.
- Developed near real-time alerts using SNS and WebSockets, enabling faster error detection and improved UX.
- Employed industry-standard security protocols (API key authorization, request validation, JWTs) to safeguard sensitive data and ensure system integrity.
- Authored a comprehensive technical case study ↗ documenting Flytrap's engineering challenges, system design, and innovative solutions, providing insights into the platform's value.
- Collaborated remotely with a global team of engineers across three time zones using agile workflows and Git best practices.

Projects
- 🎄 Advent of Code ↗ : Solved 100+ complex algorithm challenges in various languages, enhancing problem-solving and coding proficiency.
- RequestHub: Built a webhook inspection and debugging tool using React, Express, Node.js, MongoDB, PostgreSQL, WebSockets, NGINX, and DigitalOcean.
- QuickSplit: Developed a shared expense tracking application using Ruby, ERB, and Sinatra, enabling easy group financial management through automatic calculation of outstanding balances between members.
- Margit Lisa Photography: Developed a responsive Next.js website to showcase high-resolution fine art photography.

🖥 SKILLS

Languages & Frameworks	**Cloud**	**Other**
Python, JavaScript, TypeScript, Ruby, SQL, C, Express, Flask, React, Next.js, Chakra UI	DigitalOcean, AWS (EC2, Lambda, API Gateway, S3, RDS, SQS, SNS), Heroku, Terraform	Git/GitHub, Docker, Bash, PostgreSQL, MongoDB, WebSocket, SSE, Nginx, REST API, Tensorflow

🎓 EDUCATION

LaunchSchool   2023 – 2024
Multi-year, mastery-based software engineering curriculum. Read more at launchschool.com/employers ↗

HarvardX, *CS50xAI Introduction to Artificial Intelligence with Python* ↗   2024

HarvardX, *CS50x Introduction to Computer Science* ↗   2023

Goldsmiths, University of London, *M.Sc. Forensic Psychology*   2017 – 2018 | London, United Kingdom
With Merit

Maastricht University, *B.Sc. Psychology*   2014 – 2017 | Maastricht, Netherlands
Honours Programme, Cum Laude