Simon Tekle Tesfatsion

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Education

KTH Royal Institute of Technology <div align="right">Stockholm, Sweden</div>
Bachelor of Science in Computer Science and Engineering. <div align="right">August 2022 - June 2025</div>

Experience

KTH Royal Institute of Technology <div align="right">Stockholm, Sweden</div>
Bachelor Thesis | Computer Science <div align="right">March 2025 – June 2025</div>

- Conducted an experimental comparative study of *microkernel vs. monolithic kernel* architectures to evaluate performance, stability, and security trade-offs.
- Designed and executed benchmarks in controlled virtualized environments using Sysbench, Stress-ng, and Fio.
- Analyzed CPU and I/O performance, fault isolation, and recovery behavior across Ubuntu (monolithic) and Minix 3 (microkernel) systems.
- Authored a 15-credit bachelor thesis titled *"Microkernel vs Monolithic Kernel: A Practical Evaluation of Performance, Stability and Security"* (TRITA-CBH-GRU-088, 2025).
- Available online: [DiVA-portal record for thesis](#)

Infor <div align="right">Stockholm, Sweden</div>
Fullstack, DevOps | Project intern <div align="right">April 2024 – June 2024</div>

- Develop and maintain a proof-of-concept Java Spring-based microservice that sends custom application metrics to InfluxDB and Grafana.
- Focused on developing, researching, and optimizing the viability of using Java, Spring, and Micrometer for telemetry.
- Optimized and researched different application metrics and their importance in sensitive systems.
- Worked with Java, Spring Boot, Micrometer, Maven, InfluxDB, Prometheus, SQL, Grafana, DevOps, CI/CD, Unit Testing, Docker, Kubernetes, Lens, and Git.
- Collaborated in an agile team environment following Scrum methodology.

Avarn Security <div align="right">Stockholm, Sweden</div>
Stationary Guard | Part-time <div align="right">June 2024 – Present</div>

- Ensured the safety and security of client premises through monitoring and patrolling.
- Provided exceptional customer service by assisting visitors and managing access control.
- Documented incidents and maintained logs to support efficient operations.

Skills & Interests

Technical Skills:
Programming Languages: Java, JavaScript, C, C#, C++, Python, HTML, CSS, MATLAB, Kotlin.
Frameworks and Libraries: Node.js, React, JavaFX, Spring Boot, ASP.NET, SDL/SDL2, Maven, Quarkus, Entity Framework.
Databases: SQL, NoSQL, InfluxDB.
Tools and Technologies: Docker, Kubernetes, Lens, Prometheus, Grafana, Tomcat, Git-Bash, CI/CD pipelines, API-development, Unit Testing, Mobile Applications, Scrum.
Certifications: Cisco - Certificate in Information Technology.
Other Tools: Cisco Packet Tracer, Linux, Microsoft Office, LaTeX.
GitHub: [GitHub Profile](#)
Languages: Swedish (native), English (fluent).
Interests: Finance, software development, trading, fitness, and gaming.

About Me

I am a recent Computer Science graduate from KTH, passionate about making things work, hitting roadblocks, and then pretending it was all part of the plan. I love software development, DevOps, and cloud technologies, and I enjoy turning complex problems into simple, elegant solutions. Sometimes, when I get stuck or run into tricky errors, I go to sleep and end up dreaming about the solution, then I wake up and immediately start coding the exact fix I saw in my dream. Outside of coding, you'll probably find me diving into finance and trading charts, or at the gym trying to debug my workout routine. I'm eager to grow, learn from great teammates, and contribute to projects that make a real impact.