

Akuen Akoi Deng

Software Engineer | Machine Learning Engineer | Distributed Systems Engineer

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SUMMARY

Aspiring research fellow with a M.Sc. in Computer and Systems Science, experience in technical and theoretical research, Software Engineering, Machine Learning, and CyberSecurity. Built AI-based systems, distributed systems, Internet of Things, and fullstack web platforms using Python, Java, C/C++, JavaScript, Docker, Kubernetes, and modern machine learning frameworks.

EDUCATION

Stockholm University <i>M.Sc. in Computer and Systems Science</i>	Aug. 2024 – Jun. 2026 Stockholm, Sweden
University of Gothenburg <i>B.Sc. in Software Engineering and Management</i>	Aug. 2021 – Jun. 2024 Gothenburg, Sweden

PROFESSIONAL EXPERIENCE

University of Gothenburg <i>Teaching Assistant</i> <ul style="list-style-type: none">Guided student project groups through planning, collaboration, and implementation, providing technical support and coaching in Systems Development (DIT113) and Team Programming (DIT094).	Oct. 2022 – Jun. 2023 Gothenburg, Sweden
Chalmers Teknologkonsulter AB <i>IT Consultant</i> <ul style="list-style-type: none">Worked across technical delivery and stakeholder-facing activities, including implementation, solution discussion, and product improvement.	Nov. 2022 – Jun. 2023 Gothenburg, Sweden

RESEARCH & PUBLICATION

Master thesis <i>Adaptive AI Task Partitioning and Offloading in Heterogeneous Edge-Cloud Networks</i> <ul style="list-style-type: none">Peer-review Preprint: https://arxiv.org/abs/2605.09623	Jan. 2026 – Jun. 2026 Stockholm, Sweden
Bachelor Thesis <i>Deep learning camera-based heart rate detection in vehicles using non-functional requirements.</i> <ul style="list-style-type: none">Publication copy: here	Mar. 2024 – Jun. 2024 Gothenburg, Sweden

PROJECTS

Virtual Diabetes Clinic Triage [GitHub] <ul style="list-style-type: none">Engineered a FastAPI-based Machine Learning service that predicts diabetes progression risk scores to support patient triage and follow-up prioritization.Implemented prediction and health-check endpoints, a dashboard for ranking patient records by risk, and Dockerized deployment with MLOps and CI/CD automation.
Dentistimo [GitHub] <ul style="list-style-type: none">Built a distributed system with five components that allows residents of Gothenburg to locate dentists on a map and book appointments.Implemented functionality across frontend and backend components in a multi-service architecture.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript
ML/AI: PyTorch, TensorFlow, NumPy, pandas, scikit-learn, Claude, codeX, RAG, MLOPs
Front/Backend: Django, Node.js, Vue.js, React
Databases/DevOps: SQL, PostgreSQL, MongoDB
Security / Systems: Threat modelling, Kali Linux, Nmap, Metasploit, Linux
Others: Docker, Kubernetes, GitHub Actions CI/CD, Vercel, Latex