

Tobias Johannesson

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Portfolio | GitHub | LinkedIn

EXPERIENCE

AMAZON WEB SERVICES (AWS) | SOFTWARE DEVELOPMENT ENGINEER

Nov 2024 – Present | Dublin, Ireland

- Ranked **top 3 in code contributions** (PRs submitted, reviewed, merged) within 6 months in a 14-engineer team, demonstrating high velocity and fast ramp-up.
- Reduced latency by 80%** ($35s \rightarrow 5s$) in internal workflows, improving customer availability for mission-critical database operations.
- Fixed **high-severity production bugs**, lowering on-call incidents and improving reliability.
- Enhanced test infrastructure to remove **orphaned 24xlarge resources**, saving an estimated \$400K+/month.
- Hackathon Winner:** Co-led cross-team AI project to boost operational efficiency **across orgs**.

SUSQUEHANNA INTERNATIONAL GROUP (SIG) |

SOFTWARE ENGINEERING INTERN

Jun 2024 – Aug 2024 | Dublin, Ireland

- Built and simulated **low-latency trading algorithms** to analyze profitability and system performance.
- Designed and implemented a **microservice** improving reliability and modularity in the trading infrastructure.
- Participated in **decision-optimization training (poker)** to enhance probabilistic reasoning and risk assessment.

INTERNATIONAL BUSINESS MACHINES (IBM) | DEVOPS

DEVELOPMENT INTERN

Jul 2023 – Oct 2023 | Stuttgart, Germany

- Built REST API and command-line interface for IBM z/OS mainframe automation, reducing manual tasks.
- Streamlined z/OS management tooling to support faster system automation and deployment.

AMAZON WEB SERVICES (AWS) | SOFTWARE ENGINEERING

INTERN

Jun 2022 – Apr 2023 | Dublin, Ireland

- Designed real-time **data extraction and visualization tools** for AWS services, improving system observability. Supported the launch of a new service, expanding the team's portfolio by **25%**.
- Identified and resolved **scalability and security** bottlenecks, enhancing reliability and performance.

CERTIFICATIONS & ACHIEVEMENTS

- T. Johannesson, IEEE Paper - 2024
- AWS Certified Data Engineer - Dec 2024
- AWS Certified Solutions Architect - Apr 2023
- AWS Certified Cloud Practitioner - Feb 2023
- Top Talent Award, Nova Global - 2023
- “CEO for One Month” Finalist (Top 10 in Sweden), Adecco - 2023
- Mensa Sweden Member - Since 2018

EDUCATION

ROYAL INSTITUTE OF TECHNOLOGY (KTH)

M.Sc. COMPUTER SCIENCE

Jun 2024 | Stockholm, Sweden

Grade: Equivalent to First Class Honours

Coursework: Distributed Systems, Machine Learning, Cloud Computing.

Languages/Tech: Python, Java, C++, AWS, Azure.

TECHNICAL SKILLS

Programming: Java, C++, Python, C#, JavaScript, TypeScript

Frameworks & Tools: Spring Boot, React, Node.js, PyTorch, JUnit, Pytest, Git

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB

Cloud & Infrastructure: AWS (EC2, S3, Lambda, Aurora, RDS, CloudFormation, EBS, CloudWatch), Azure

Systems & DevOps: Linux, CI/CD Pipelines, Monitoring & Observability

AI / ML: Model Training, Data Preprocessing, Feature Engineering

Languages: Swedish (Native), English (Fluent), German (Intermediate)

LINKS

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