

Tukue Gebremariam Gebregergis, MSc

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OVERVIEW

Experienced backend developer and devops engineer with expertise in Java, Python, and cloud technologies. Specializing in designing and optimizing scalable APIs, automating infrastructure provisioning, and implementing CI/CD pipelines for faster and more reliable deployments.

At Ericsson AB, contributed to 4G software feature development, enhancing network capabilities and performance. At Discovery Network Sweden, implemented the migration of TV planning applications to AWS, improving scalability and operational efficiency.

Currently working on backend and full-stack application development, infrastructure automation, and security best practices using Terraform and CloudFormation. AWS Solution Architect Associate certified, and passionate about cloud-native architectures, API development, and devOps automation, continuously building resilient and high-performing systems.

CERTIFICATIONS

- ISTQB Certified Tester Foundation
- Certified AWS Solution Architect Associate
- Microsoft Certified Azure Fundamentals
- Terraform Certified Associate
- AWS Developer Associate Certification
- Certified Scrum Product Owner Certification
- AWS Certified AI Practitioner

TECHNICAL SKILLS

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

Backend Technologies: Spring Boot, Node.js, Flask

Frontend Technologies: JavaScript, HTML, CSS, React, Bootstrap

Tools & Environment: Docker, Prometheus, Grafana, Kibana, Elasticsearch, Terraform, ServiceNow, Azure DevOps, Kubernetes (on-premise & cloud)

CI/CD Tools: Jenkins, Gerrit/GitHub, Github Actions, AWS code build and AWS codepipeline

Methodologies: Agile, Lean, Scrum

Databases: Oracle, Dynamodb, Mongoddb, postgres

Networking: TCP/IP, IPv4, IPv6

LANGUAGES

- **English:** Professional proficiency
- **Swedish:** Basic conversational level

WORK EXPERIENCE

Senior Cloud Engineer

Enigio (May 2024 – Oct 2024)

- Designed and implemented an event-driven application in JavaScript using AWS services.
- Developed Infrastructure as Code (IaC) using AWS CloudFormation.
- Integrated various AWS cloud services, including Lambda functions.
- Automated the restart of ECS containers when receiving security patching events.
- Conducted security scanning using AWS Security Hub and Inspector.

Fullstack & Python Development Bootcamp

(Oct 2023 – May 2024)

- Built data projects and backend APIs using Flask and Nodejs
- Developed fullstack applications with React, JavaScript, and TypeScript.
- Created games and applications, focusing on backend development with Flask and Node.js.

DevOps Engineer / SRE

Digital Route (Jun 2023 – Oct 2023)

- Developed Infrastructure as Code using Terraform.
- Implemented AWS services development and Kubernetes operations.
- Conducted AWS Well-Architected Reviews for production environments.
- Automated AWS security best practices using Terraform.
- Monitored production environments using Datadog.

Cloud Developer Consultant

Knowit – Trafikförvaltningen (Jan 2022 – May 2023)

- Implemented cloud migration and infrastructure automation initiatives.
- Developed AWS serverless applications with security best practices.
- Designed AWS IoT systems and implemented CI/CD pipelines using Azure DevOps.
- Migrated databases to AWS cloud using AWS Data migration service

Backend Developer

Telenor (Dec 2017 – Jan 2022)

- Developed RESTful APIs for CRM applications using Spring Boot & Hibernate
- Integrated TMForum interoperability standards as part of Digital Transformation projects.
- Implemented DevSecOps in CI/CD pipelines and best DevOps practices for Kubernetes.
- Monitored applications using Grafana, Prometheus, and Elasticsearch.

System Development Engineer

Discovery Network Sweden (Mar 2016 – Dec 2017)

- Developed Java applications that integrate with TV planning systems.
- Migrated TV planning applications to AWS cloud.
- Performed troubleshooting and system maintenance.
- Resilient Network architecture design and implementation.
- Restful API testing and integration.

LTE Software Developer

Ericsson AB, Stockholm (Aug 2014 – Dec 2015)

- Developed Linux-based embedded systems using C for 4G HetNet features.
- Conducted end-to-end testing and feature verification.
- Applied detailed LTE system knowledge in an Agile environment.
- Achievements: Successfully developed a new HetNet feature for 4G networks.

EDUCATION

MSc in ICT Innovation (Communication System Design Specialization)

KTH Royal Institute of Technology, Sweden (Sep 2013 – Aug 2014)

- Communication System Design & Development (Practical joint project with Acreo & Karolinska Hospital).
- Research in Innovation & Entrepreneurship.

MSc in Computer Networks

EIT Digital Master Program – University Pierre et Marie Curie & ParisTech, France (Sep 2012 – Jul 2013)

- Specialization in Internet Technology & Architecture (Now Cloud & Network Infrastructures).
- Topics: Network Architecture, Digital Signal Processing, Modeling & Simulation, Next-Gen Internet.

BSc in Electronics & Communication Engineering

Mekelle Institute of Technology – Mekelle University, Ethiopia (Sep 2005 – Oct 2009)

- Graduated with Great Distinction.
- Final Project: Optical Network Prototype.

Thesis Project Experience & Courses

Thesis project – KTH, Sweden (Feb 2014 – Aug 2014)

- Developed a wireless network simulator using Wolfram Mathematica.
- Conducted research on energy-efficient base station operations.

Research Assistant – University Pierre et Marie Curie, France (Nov 2012 – May 2013)

- Conducted a comparison analysis of neurofeedback systems.
- Proposed system improvements and optimizations.

Swedish Language Course – Berlitz International

- Basic Level Swedish.