

# Atoshem T. Ghebrehiwet

Software Engineer | Freelancer | AWS Solutions Architect

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Washington, DC

## EXPERIENCE

### Capital One, Washington, DC — Senior Software Engineer

May 2021 - PRESENT

- Develop and maintain a highly performing cloud-hosted sensitive-data tokenization Service built using Java17 and Spring boot; containerized through Docker and running on AWS ECS. Achieved 99.99% uptime for these services.
- Improved application performance by caching frequently accessed data using an in-house build caching system. Reduced database queries by 50% and improved response time by 30%.
- Integrated a messaging service using Kafa for real-time data processing and storage in a data lake. Reduced message processing time by 40% and increased message throughput by 2x.
- Develop and maintain the Interface and Backend API of the tokenization platform
- Contribute in the development of Client SDK in Java and Python to enable efficient use of API
- Create test suite for validating the platform's API using Postman
- Monitor API's infrastructure on AWS using NewRelic and Splunk
- Write technical documentation for using APIs and SDKs to access the tokenization platform
- Lead a Rust book club
- Created a CICD pipeline using Jenkins and Gitlab CI for continuous delivery of software applications. Reduced deployment time by 50% and increased deployment frequency by 2x.
- Implemented AWS Route 53 Failover for automatic DNS failover and improved application availability. Achieved 100% uptime for the application during DNS failovers.

### Leidos, Washington, DC — Senior Software Engineer

NOV 2019 - MAY 2021

- Built customer-facing features for USCIS using Angular and Spring boot
- Built a non-blocking testing suite that tests 50,000 cases in less an hour
- Built and deployed code on Amazon Web Services
- Develop template to deploy microservice on AWS using Terraform
- Containerized and deployed microservices on Openshift Platform
- Led brown-bag session on containerization technology (Docker)

## SKILLS

- Kubernetes, Openshift
- Amazon Web Services
- Microservices
- Java, Spring boot
- Rust
- Golang
- Angular
- ReactJS
- Terraform
- SQL, NoSQL
- Jenkins
- Maven, Gradle
- Python, Bash scripting
- Helm
- Hashicorp Vault
- Splunk
- Prometheus

## AWARDS

Leidos Innovation Award - 2020

Fannie Mae Digital  
Accelerator Award - 2019

## LANGUAGES

English, Arabic , Tigrinya and  
Amharic

## PROJECTS

### Entrepreneur Connect — A Web App

Created, dockerized and  
deployed a web app that  
connects potential investors

- Mentored Junior Software Developers

with innovators.

## **Fannie Mae, Herndon, VA — Software Engineer**

JUN 2018 - NOV 2019

- Developed web applications using Angular and Spring boot (Java)
- Decomposed Monolithic Application into microservices
- Improved test performance by Decoupling and parallelizing execution of code on Jenkins
- Automated Tests using Selenium API, Cucumber, Rest Assured, TestNG and Junit
- Restructured application design to enable Blue-Green deployments
- Assisted in gathering business requirements from clients

## **CERTIFICATIONS**

- CKAD (Kubernetes)
- AWS Developer (Associate)
- AWS Solutions Architect (Associate)
- HashiCorp Certified: Terraform Associate

## **Freelance, online — Web Developer**

JUN 2016 - PRESENT

- Develop Wireframes
- Develop web applications using HTML, CSS & Vanilla Javascript
- Manage monthly site updates

## **EDUCATION**

### **University of Virginia, Charlottesville, VA — Bachelors of Computer Science - GPA : 3.3**

Aug 2016 - May 2018

### **Northern Virginia Community College, Alexandria, VA — Associates of Mathematics - GPA : 3.95**

Jan 2014 - May 2016