




# AMELIA FATYKHOVA

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## EDUCATION

### Georgia Institute of Technology

Atlanta, GA

Master of Science in Computer Science – GPA 4.0/4.0

August 2023 – May 2024

Bachelor of Science in Computer Science – GPA 3.57/4.0

August 2019 – May 2023

## SKILLS

**Languages:** Scala, Go, Java, Ruby, Python, React, JavaScript, D3, P5, HTML, CSS, PostgreSQL, MySQL

**Tools:** Docker, Kubernetes, Elasticsearch, Grafana, Kibana, AWS S3, Jenkins, GitLab CI/CD, Git, Gerrit, Jira, Confluence

## EXPERIENCE

### Cisco Meraki

June 2024 – Present

Software Engineer

San Francisco, CA – On-site

- Networking service development, leveraging Go, Ruby, Python, Kubernetes, GitLab CI/CD, PostgreSQL
- Developed and maintained Nextunnel, which enables connectivity between network nodes and Meraki servers
- Used Ruby and Grafana to create infra-tests, alerts, and pagers; utilized Python for Grafana panel codification
- Deployed and monitored Nextunnel Kubernetes pods with GitLab and Athena

### Cisco Meraki

May 2023 – January 2024

Software Engineering Intern

San Francisco, CA – Remote

- Data engineering using Scala, PostgreSQL, Jenkins CI/CD, GitLab CI/CD, Docker, Grafana, Kibana
- Created a framework for dynamic instantiation of Scala services that grab data from network nodes
- Containerized these services in preparation for deployment to a Kubernetes environment

### Cisco Meraki

May 2022 – August 2022

Software Engineering Intern

San Francisco, CA – Remote

- Developed a Scala-based data aggregation framework for file reading and data processing with AWS S3
- Created new aggregation protocols for node (routers and switches) data to optimize network communication

### Adobe

May 2021 – August 2021

Software Development Intern

Waltham, MA – Remote

- Worked in Java, JavaScript, React.js, MySQL; ranked 8 out of 633 Summer 2021 intern projects
- Full-stack microservice development; created a dashboard with user personalized charts to track document data
- Used MySQL to create multi-user report changesets with Vega Visualization library for UI chart generation
- Worked with Liquibase for database migrations, Spring Boot for Java web server development, maintained Jenkins CI/CD

### Georgia Tech Research Institute

January 2021 – May 2021

Software Development Intern

Atlanta, GA – On-site

- Developed frontend field vital monitoring web application for the US Army in the HRAPS team
- Built dashboard, form, and submission features for web app with React and JavaScript

## PROJECTS

### Strangeland Virtual Reality Research Project | Graduate Researcher

January 2024 – May 2024

- 3D-audio integration researcher on Strangeland (Cornell x GT) Unity VR research experiment (Unity, Git)
- Implemented binaural sound using SWAN 3D audio system for accessibility and sound navigation

### Navigation Sonification Simulator | CS 4590 Computer Audio Project

October 2022 – December 2022

- Simulator for airport navigation for Hartsfield Jackson Int. Airport; bag location mode, security line time mode
- Generated sonifications using Processing P5 Java and Beads libraries for sound-based info delivery to user

### Secure Voting Machine Research Team | System Design Team Lead

August 2021 – December 2022

- Led System Design and UI for vertically integrated research project on secure embedded voting machine
- Developed Kotlin RESTful API and MySQL relational database for embedded device to server communication