

Amelia Fatykhova

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EDUCATION

Georgia Institute of Technology | Atlanta, GA

Master of Science in Computer Science, GPA 4.00/4.00

August 2023 - May 2024

- Concentrations: Human Computer Interaction

Bachelor of Science in Computer Science, GPA 3.57/4.00

August 2019 - May 2023

- Concentrations: Media (Computer Graphics) & People (HCI)

WORK EXPERIENCE

Cisco Meraki | San Francisco, CA - Remote

May 2023 – January 2024

Software Engineering Intern

- Summer 2023 – Fall 2023 internship with the Data Engineering team; utilized Scala, PostgreSQL, Jira, Jenkins, Gerrit
- Created a framework for dynamic instantiation of “Grabber” Scala services in Docker containers; deployed to Kubernetes
- “Grabbers” grab data from network nodes; deployed a proof-of-concept containerized grabber to production environment

Cisco Meraki | San Francisco, CA

May 2022 – August 2022

Software Engineering Intern

- Data Engineering team: utilized Scala, Rails, PostgreSQL, Jira, Jenkins, Gerrit, to write backend software for networks
- Created new aggregation protocols for node (routers and switches) data to optimize network communication
- Intern project focusing on extending Scala data aggregation framework with file reading and data formatting, data sent to S3

Adobe Sign | Newton, MA

May 2021 – August 2021

Software Development Intern

- Created a dashboard with unique user-based dynamic charts, utilizing full-stack development across several microservices
- Used MySQL to create multiple user report changesets, as well as the Vega Visualization library to generate charts in the UI
- Gained experience in Spring Boot, Liquibase, Jira, Docker, and Jenkins; ranked #8 out of 633 Summer 2021 intern projects

Georgia Tech Research Institute | Atlanta, GA

January 2021 – May 2021

Software Development Intern

- Worked on the HRAPS front-end team developing a web application to track vital monitoring in the field for the U.S. Army
- Used React.js and JavaScript to add key features to the web application, including dashboards, forms, page submit functions

RESEARCH & PROJECTS

Strangeland Virtual Reality Research Project – Graduate Researcher

January 2024 – Present

- Researcher working on 3D-audio integration into Strangeland Unity Virtual Reality research experiment
- Utilized SWAN 3D audio system to implement binaural sound into Strangeland for accessibility and sound navigation

Navigation Sonification Simulator – CS 4590 Computer Audio Project

October 2022 – December 2022

- Simulator for airport navigation for Hartsfield Jackson International Airport; bag location mode, security line time mode
- Utilized Processing P5 Java and Beads libraries to generate sonification's for the user for sound-based information delivery

Bank Database GUI – CS 4400 Database Systems Project

March 2022 – May 2022

- Team project: MySQL database created including ERD diagrams and constraints, changesets, and 25+ stored procedures
- Utilized JavaScript, HTML, CSS to create GUI for each stored procedure; separate admin, user, and manager menus

LEADERSHIP & ACTIVITIES

Outdoor Recreation Georgia Tech (ORGT) – Trip Leader

January 2020 – Present

- Conducted classroom sessions and team facilitating to lead trips with 15+ GT students on adventure trips through caves
- Oversaw the training and leadership development of newer staff members; trained advanced vertical rope techniques

CS 2050 Discrete Math – Undergraduate Teaching Assistant

January 2022 – May 2022

- Worked with TA team to grade tests and quizzes for 500+ students and generate student feedback for assignments
- Held 3 hours of office hours/week for working with students one-on-one, taught a 1-hour recitation class 1x a week

SKILLS

Programming: Java, Scala, JavaScript, Python, MySQL, PostgreSQL, React.js

Tools: IntelliJ IDE, VSCode, Docker, Jenkins, Jira, Git, GitLab, Confluence, S3, Kibana, Grafana, Unity