Amelia Fatykhova

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EDUCATION

Georgia Institute of Technology | Atlanta, GA
M.S. Computer Science, GPA 4.00/4.00, Human Computer Interaction   *August 2023 – May 2024*
B.S. Computer Science, GPA 3.57/4.00   *August 2019 – May 2023*

SKILLS

Programming: Java, Scala, Python, C#, React, JavaScript, Node, D3, P5, HTML, CSS, Postgres, MySQL
Tools: Docker, Kubernetes, Elasticsearch, Grafana, Kibana, AWS S3, Jenkins, GitLab CI/CD, Postman, Git, Gerrit, Jira, Confluence
Design: Figma, Adobe Suite, Unity

WORK EXPERIENCE

Cisco Meraki | San Francisco, CA (Remote)   *May 2023 – January 2024*
Software Engineering Intern – Data Engineering Team
- 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 in Docker containers
- Containerized these services in preparation for deployment to a Kubernetes environment in development & production

Cisco Meraki | San Francisco, CA   *May 2022 – August 2022*
Software Engineering Intern – Data Engineering Team
- 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 | Waltham, MA   *May 2021 – August 2021*
Software Development Intern – Full-Stack Team
- Worked in Java, JavaScript, React.js, Node.js, MySQL; ranked #8 out of 633 Summer 2021 intern projects
- Full-stack microservice development; created Adobe Sign 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 | Atlanta, GA   *January 2021 – May 2021*
Software Development Intern – Front-End Team
- 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

RESEARCH & PROJECTS

Strangeland Virtual Reality Research Project – *Graduate Researcher*   *January 2024 – Present*
- 3D-audio integration researcher on Strangeland (Cornell x GT) Unity Virtual Reality 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 International 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

Bank Database GUI – *CS 4400 Database Systems Team Project*   *March 2022 – May 2022*
- Created MySQL database including ERD diagrams, constraints, changesets, and 25+ stored procedures
- Developed GUI per stored procedure using JavaScript, HTML, and CSS with role-based admin, user, 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
- Responsible for training and leadership development for staff members; trained advanced vertical rope techniques