Katherine Walton

KatherineFaithWalton@gmail.com • Los Gatos, CA • 208.650.5567
LinkedIn: https://www.linkedin.com/in/katherine-walton-f/ GitHub: https://github.com/katherine-walton

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EDUCATION

Emory University, College of Arts and Sciences   **Atlanta, GA**
Bachelor of Science in Computer Science and Mathematics   Aug. 2017 – May 2021

Relevant Courses: Machine Learning, Algorithms and Data Structures, Database Systems, Systems Programming, Computer Organization & Assembly Programming, Digital Electronics, Discrete Structures
In Progress: Data Mining, Computer Networking, Computational Linguistics, 3D Modeling and Visualization
Honors & Awards: Anita Borg Scholar for Grace Hopper Conference, Questbridge Scholar

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SKILLS

Programming: *Java*, *Python*, *JavaScript*, React Native, Android Development, *C*, *MySQL, R, PHP, HTML/CSS*
Software: Git, Artifactory, Jenkins, Tableau, Salesforce, 3ds Max, Unity Game Engine, Nullsoft SIS

EXPERIENCE

U.S. Bank - Elavon   **Atlanta, GA**
Software Engineering Intern   Jun. 2019 – Aug. 2019
- Deployed core application on backend servers which automated installation and updates for Message Broker
- Created client-side interface components using *Java* which improved software stability and enhanced user experience on the company's Android based payment terminal
- Set up development environment with Jenkins and Artifactory for reliable compilation and distribution

MetaGeek   **Boise, ID**
Quality Assurance Intern   Aug. 2016 – Aug. 2017
- Built and completed test cases for .NET and Android applications for Wi-Fi spectrum and packet analysis
- Wrote unit and feature tests for *PHP* based web framework Laravel to minimize tedious manual testing
- Conducted customer research to increase end product usability by identifying user characteristics

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PROJECTS

Malware Challenge – Kaggle Competition   Dec. 2019
- Created machine learning pipeline to improve malware detection on Microsoft machines using a Kaggle dataset
- Used *Python* library scikit-learn to build an ensemble model which included XGBoost, Naïve Bayes, and Random Forest as base learners, placing the team in the top 15% of 2,400 teams in the competition

Rani – Women's Sneaker Re-commerce Startup   Nov. 2019
- Developed a React Native based app with Firebase backend to facilitate a marketplace for sneaker buy/re-sale
- Engineered core features such as Android/iOS notifications, user and profile settings, and social feed features

Sudoku Solver   Jun. 2019
- Developed two-step *Java* program to solve Sudoku puzzles employing a back-tracking algorithm

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LEADERSHIP & COMMUNITY

HackEmory   **Atlanta, GA**
Vice President   May 2018 – Present
- Facilitated React Native*, Python*, and *HTML/CSS* workshops for 80+ students each semester, enabling students to achieve personal and professional development

Conservation Voters Idaho   **Boise, ID**
Voter Outreach Specialist   Jul. 2018 – Aug. 2018
- Effectively communicated with voters to assess sentiment and attain legislative accountability

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EXTRACURRICULAR ACTIVITIES

Hackathons: Home Depot, HackGT, Hack the Blockchain
Competitions: ICPC Competitive Programming, Google Tech Challenge 2019, IceCTF Security Challenge