

Gillian Maducdoc

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SKILLS

Languages

- TypeScript, JavaScript, Java, Ruby, Swift, Objective-C, PHP, C, SQL, Python.

Technologies

- React, Redux, Rails, Node.js, MySQL, Firebase, Thrift.

Tools

- Git, Jenkins, CircleCI, Docker, Vagrant, AWS, SVN.

Areas of Expertise

- Web and mobile development, infrastructure engineering, security driven development, test driven development, quality assurance.

PROJECTS

DJ Leap

- Built a motion sensing virtual DJ mixing application targeted towards casual music enthusiasts.
- Implemented in C++ with motion sensing technology, LEAP Motion.

Myo Armband Stress (Less)

- Developed a desktop destroyer application controlled by user's hand gestures and arm movements.
- Implemented with Myo, Thalmic Labs' gesture control armband, using C++.
- Won 'Top Myo Hack' at Waterloo's EngHack 2014 Hackathon.

EDUCATION

University of Waterloo,

Bachelors in Software Engineering April 2019

EXPERIENCE

Credit Karma, Full Stack Web Developer

Jan 2018 - Apr 2018 | San Francisco, CA

- Created RPC and mobile API endpoints from both microservice and monolithic service backend in Typescript and PHP to facilitate data retrieval and user flow.
- Enhanced identity monitoring product and user experience, adding alerts for exposed passwords and breached data and user interface for email verification according to design specification in React and Redux.
- Facilitated data pipelining of millions of sensitive data breach records, filtering and sorting confidential data, ensuring integrity and availability.
- Consulted with many stakeholders including product managers, designers, and data analysts to successfully fully implement a brand new service and feature by end of quarter.

Snowflake Computing, Services & Security Engineer

May 2017 - Aug 2017 | San Mateo, CA

- Lead the research, software design, and implementation of a working solution to integrate OAuth 2.0 protocol into Snowflake Data Warehouse product in Java, according to the IETF specification.
- Created new token and authorization objects and organized objects in data tables with efficient primary keys and indexing to ensure quick look up.
- Implemented a test web server in Python simulating as a third-party client going through end-to-end OAuth 2.0 flow.
- Refactored login session workflow to improve efficiency of locking users out of transactions in Snowflake product.

Grand Rounds, Infrastructure Engineer

Aug 2016 - Dec 2016 | San Francisco, CA

- Identified and remedied various security vulnerabilities within the product, including cross site scripting (XSS), cross site request forgery (CSRF), and SQL injection.
- Investigated, researched, and designed a solution for a defence against automated attacks.
- Automated the seeding of product data and workflows into internal continuous development environment in Ruby.
- Improved Docker based continuous integration (CI) system by adding functionality for running integration tests and adding front-end features.

Osellus Mobile, iOS Developer

Jan 2016 - Apr 2016 | Toronto, ON

- Developed an interpreter (scanner, tokenizer, parser, abstract tree maker) in Swift for company's independent language.
- Refactored multiple files and classes originally developed in Objective-C code into Swift.
- Designed and performed end-to-end development of a fully functional proof of concept AppleTV prototype app.

Siemens Canada, Research & Development Team

May 2015 - Aug 2015 | Vaughan, ON

- Developed user privileged SSH client for remote error logging of network switches in Java.
- Implemented test scripts in Perl and maintained test networks for QA releases.
- Knowledge of networking protocols established through testing of networking devices.