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Connie Ma

SKILLS

Electrical & Hardware	Languages & Frameworks	Other Tools
● Breadboard circuit assembly ● RC/LRC circuit analysis ● Altera Cyclone II FPGA ● PCB assembly via reflow soldering ● RS232	● Javascript, ReactJS ● C, C++ ● Python, Ruby, Rails ● Scala, Akka and Spray.io ● Java, Android API ● SQL	● Amazon Web Services CLI and Tools (EBS, EC2, S3, Route53, RDS, Kinesis, Lambda) ● Agile methodology ● Git, Subversion, JIRA, CI servers ● Broadcom WICED Wi-Fi framework

ACADEMIC PROGRAM

University of British Columbia, *Vancouver, BC*

> Bachelor of Applied Science in Computer Engineering (Software Option)
> Anticipated Date of Graduation: May 2018

CO-OP WORK EXPERIENCE

Neurio Technology Inc., *Vancouver, BC*   **MAY 2015 – SEP 2016**
Full Stack API / Web Development
- Implemented backend release features for Neurio's REST API. Wrote endpoints for user energy forecast data, device commissioning, user and location settings, appliance data, and other features
- Wrote scalable database migrations to the Neurio production SQL server
- Developed and maintained core web features such as historic graphs, energy consumption forecast calculations, in-app notifications, and other smaller features for Neurio's web application
- Redesigned and implemented the Neurio API documentation website in Ruby / Ruby-on-Rails
- Troubleshooted a production backend problem that was unrelated to API / Web and communicated with AWS support to debug memory leak issues; ultimately increased performance of the calculation by 60%

Test Development
- Designed, deployed and maintained an end-to-end QA environment that paralleled the production environment
- Wrote test scripts for the Neurio solar savings feature, consumption forecast features, and API unit tests
- Planned and designed regression test plans for a complex retroactive data analytics (ML) infrastructure component, including organized smoke tests, A/B test cases, and pairwise test cases

Qooway Rewards Inc., *Richmond, BC*   **MAY 2014 – AUG 2014**
Junior Android Developer
- Developed two major release features: a photo gallery and a user "check-in" protocol for Qooway's consumer app
- Designed and implemented a REST API client test program that could run iterations of API calls to a server database; making use of this client decreased predicted downtime of the server by 10%

OTHER TECHNICAL EXPERIENCE

doofieBot @ Hack the North 2017, *University of Waterloo*   **15-17 SEP 2017**
- Implemented and deployed an interactive Slack chatbot that intelligently recognizes and recommends local businesses based on images supplied by a user. Also designed an algorithm to curate the set of results returned
- Adapted and used various APIs and tools, including IBM Watson's Visual Recognition, Slack SDK, and Yelp Fusion

UBC Thunderbots Team, *UBC*   **SEP 2014 – MAY 2015**
- Wrote scripts and tested implemented plays and tactics based on the Thunderbots robot software
- Participated in the development of a particle filter feature to determine location of the ball for robot orientation, using Monte Carlo density estimation algorithms

ACTIVITIES AND INTERESTS

- Software and hardware security (achieved highest course mark of 100% in CPEN 442 Computer Security)
- Cross-country running, NBA, traveling, RTS / MOBA games, and learning foreign languages