

QILE WANG

Systems Design Engineering | University of Waterloo

EXPERIENCE

PavelQ    **Flask**  **Elasticsearch**  **JS**  **Sass**

Software Engineer • June 2016 - Present • San Francisco, CA

- Rebuilt **Python** request pipeline for **150x decrease in requests made**
- Designed & extended core **Python** request processing modules using **C** for **12x increase in overall program efficiency**
- Created algorithms to generate unique marketing insights from customer data using **Elasticsearch** and **Python**.
- Redesigned consumer facing product to incorporate charts, maps, and other data visualizations using **Javascript**, **Highcharts**, and **Sass**
- Oversaw processing of over **1TB** of **raw user data**

TD Innovation Labs  **JS**   **C#**  **unity** 

Solutions Developer • Jan 2016 - April 2016 • Waterloo, ON

- Used **Design Sprint** principles to prototype new banking solutions
- Drafted & directed **User Testing** to optimize product design
- Developed **Android** applications for potential customer use
- Built server side components for multiple projects with **Node.js**
- Explored **Augmented Reality** to create inventive new applications for the future of banking (**C#**, **Unity**, **Vuforia**)

PROJECTS

ENVR   **unity**  **ARDUINO**

VR Enhancer Using Physical Stimulus • June 2016 - Present

- Created using **C#** with **Unity** and **Arduino** for hardware controls
- Developed multiple VR applications to demonstrate capabilities
- Pitched & finalized for chance at \$5,000.00 at Velocity Fund Finals

RSWhy    **Myo**

System for Repetitive Strain Injury Management • Sept 2016

- Built using **Matlab**, **Arduino**, **Firebase**, **Node.js** and **Myo Armband**
- Processes raw EMG data, tracks disease progress, and massages affected areas using data refinement technique from whitepaper

Texty  **JS**   **twilio**

SMS Bot Interface to Access Web Features • Jan 2016, May 2016

- Created with **Twilio**, **Firebase** and **Node.js**, hosted on **Heroku**
- Checks translations, weather, stocks, currency, and email with APIs
- Text (226) 779-0980 to try it!

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SKILLS

Languages: Python, Javascript, HTML, Sass, C, C++, C#, Java

Platforms & Frameworks: Flask, Django, Elasticsearch, Unity, Vuforia, Node.js, Bootstrap

Tools: Git, PyCharm, Webpack, Babel, Grunt, Npm

Hardware: Arduino, Google Cardboard

Methodologies: SCRUM, User Centered Design, Design Sprint, User Testing

ACTIVITIES

Velocity Resident: Living & Participating in UWaterloo's Residence for Entrepreneurs

Hackathon Hacker: Veteran Hackathon Attendee / Team Leader with 14 Events Attended in Canada, the US, and Sweden

HACKATHONS

WearHacks Toronto: Smart Pillow for Sleep Management

BostonHacks 2015: EMS Caller Voice Analysis to Estimate Likelihood of Shock on Site

WildHacks 2015: Homeless Shelter Availability Hotline

Nordic IoT Hackathon 2016: Swedish Hackathon, Created an In-Hospital Patient Feedback System for Doctors / Nurses

MHacks: Refactor: Meeting point finder using SMS, featured by Twilio