JONATHAN*WEN

Research Assistant – Full Stack Engineer – Web Developer

J.W.

🏠 jstarw.github.io

✉ j23wen@uwaterloo.ca

📞 416-712-8801

in ca.linkedin.com/in/jstarw

○ github.com/jstarw

SKILLS

Languages: PHP, Python, C++, MySQL, JavaScript, HTML, CSS/SCSS/LESS, MATLAB, Arduino

Libraries: Scikit-Learn, jQuery, D3.js, React, Node.JS, Express, Socket.IO

Courses:
- Data Structures and Algos
- Machine Learning
- Linear Algebra

EDUCATION

University of Waterloo
Systems Design Engineering
Class of 2019

Awards
Cumulative Average of 84%
President's Scholarship, 2013

INTERESTS

Photography, Guitar, Toronto Raptors, Traveling (not in basketball)

EXPERIENCE

Indochino: Full Stack Engineer - Vancouver, BC · Sep – Dec 2015
- Implemented the Alterations project, which allows customers to update their clothing measurements, saving the company thousands of dollars
- Optimized website performance by reducing Memcached calls and using SQL Views, decreasing page load time by upwards of 300%
- Migrated hard-coded data to SQL tables, improving scalability and maintenance
- Worked with L.A.M.P. stack to implement features to the admin system

Klick Health: Front End Web Developer – Toronto, ON · Jan – Apr 2015
- Created Leaderboard and Kiosk page for conference with over 11,000 attendees
- Contributed to MVC website development for major pharmaceutical companies
- Developed QuickSearch feature with Mithril, allowing thousands of items to be searched simultaneously

Indigo: Quality Assurance Analyst – Toronto, ON · May – Aug 2014
- Tested functionality on home page with 70,000 hits per day using SQL queries

RESEARCH

University of Waterloo: Research Assistant · Since Jan 2016
- Research Topic: Using machine learning and computer vision to predict breast cancer tumors in patients, under the guidance of Professor Hamid Tizhoosh
- Dataset taken from patients at the Sunnybrook Hospital

PROJECTS

InstaTabV2 – Python, Scikit-Learn · github.com/jstarw/InstatabV2
- Photo prediction application to be built using machine learning and Flickr API, **currently in progress**
- Scraped 10,000 photo tags and grouped using k-means clustering algorithm, fed into neural network to predict user's preference

Handwriting Recognition – MATLAB · github.com/jstarw/machine-learning
- Program that recognizes handwritten numbers using Artificial Neural Networks and Multi-Class Classification
- Used advanced optimization engines and forward/backward propagation

Guelph Hackathon – Node.JS, AngularJS · github.com/jstarw/Guelph2015
- App that allows people to view, email, and print their collection schedule
- Organized data from large CSV files onto an interactive calendar