EDWARD REN

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SKILLS

Python, JavaScript, C++, Swift, C, Visual Basic, HTML/CSS Languages

Technologies Node.js, Django, React, Docker, Git, TensorFlow, Xcode, MongoDB

EXPERIENCE

Blackberry - QNX Ottawa, Ontario

Software Engineering Student - Open Source

May 2018 - Aug 2018

- Initiated Dockerized licensing system with **Diango** to streamline certifications and cut time spent by 90%
- Designed association rule machine learning classifier to reduce false positives in licensing model by 30%
- Pipelined batch database queries in Luigi to train models and support aggregation of 40,000+ tasks
- Integrated microservices to existing software stack with Kafka data streams to reduce latency by 95%+
- Implemented scalable search indexing with elasticsearch to visualize and deliver analytics intelligence

Waterloo, Ontario **WATonomous** Full-Stack Development Lead (watonomous.ca) Oct 2017 - Aug 2018

- - Created autonomous vehicle team's website in React and Express.js to serve 2,000+ monthly visitors
- Containerized production site in **Docker** with SSL and **Nginx** to trim page rendering times by 60%
- Developed applicant back-end server with Node.is and MongoDB to handle text and resume uploads
- Deployed **Django**-based applicant interface with continuous integration to administer **300**+ users

Ciena Corporation

Ottawa, Ontario

Embedded Software Intern

Jul 2016 - Aug 2016

- Rectified licensing inconsistencies using tree traversal algorithms in Visual Basic to classify 50% of tasks
- Mass crawled remote repositories in Python to obtain URLs for 2,100+ licenses from 80+ sources
- Revitalized department's homepage with **React** and **D3.js** to graphically display weekly data for analysis

PROJECTS

HeartBit - Developer - Hack The North (github.com/EdwaRen/heartbit)

Sept 2018

Built biometrics analytics app using image processing in **OpenCV** and **TensorFlow** to monitor anxiety

Recycle Can – Creator and Developer (recyclecan.ca)

Jun 2017 - Dec 2017

- Architected real-time iOS navigation app with 18,000+ lifetime downloads using Swift to guide users to the closest electronic waste recycling centre
- Constructed companion website in React with Google Maps API to deliver 1,500+ peak monthly visits

ACHIEVEMENTS

HeartBit - Canadian Special Forces (CANSOFCOM) winning hack	2018
Recycle Can - Featured nationally on Metro News	2017
International Baccalaureate - Bilingual Diploma	2017
SHAD Fellow - University of Saskatchewan	2016

EDUCATION

University of Waterloo - Bachelor in Software Engineering

Sept 2017 - Apr 2022

INTERESTS

Cross country, Blitz Chess, Speedcubing, Skiing, Swimming, Hiking, Quiz bowl Trivia