

ELAINE YE

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EDUCATION

University of Waterloo
Computational Mathematics (BMath)

Class of 2019

TECHNICAL STRENGTHS

Languages	• Python (3yrs) • R (1yr) • MATLAB • C/C++ • JavaScript
Libraries & Framework	• NumPy • pandas • scikit-learn • Keras • PyTorch • Vue.js
Software	• Bash • Git • MySQL • Docker • AWS Lambda & EC2

WORK EXPERIENCE

Luci.AI
Software Developer

Aug 2019 - Dec 2019

- Built platform for route optimization in Multi-Vehicle Routing, combining OSRM mapping data with CPLEX optimization engine.
- Developed production deployment systems in AWS Lambda / EC2 and Docker.
- Achieved 80% accuracy for model to recognize more than 200 varieties of fruits and vegetables by fine-tuning a pretrained ResNet model.

IBM
IoT & AI Developer

Sept 2018 - Dec 2018
Evaluation: Outstanding

- Investigated and implemented closed-set and open-set face recognition algorithms with facenet and SVM using Python and TensorFlow
- Built a PoC control access system to detect and recognize faces using Raspberry Pi with 99% accuracy
- Deployed interactive blockchain web app using React and Hyperledger Composer to track status information of IoT-enabled packages that pass through multiple carriers in the supply chain

Cognitive Systems Corp.
Machine Learning Data Analyst

May 2018 - August 2018
Evaluation: Outstanding

- Detected human and mechanical motion signatures and reduced false alarm rate by 50% by extracting structured patterns from radio frequency signals
- Designed a robust noise estimator for embedded devices to distinguish noise from real motion using statistical hypothesis tests

Crawford & Company/Crawford Compliance
Developer/R&D co-op

May 2017 - August 2017
Evaluation: Outstanding

- Incorporated system validation in user authentication forms using JavaScript
- Managed auto-generated email templates using PHPMailer library
- Utilized Google Maps APIs and Bootstrap to generate weather widget prototype on dashboards

PROJECT

NLP Emotion Detector

Developed a sentiment classifier for Chinese conversational text using TF-IDF (term frequency - inverse document frequency) and logistic regression in Python

Teochew NLP Project

Explored the sound correspondences between the Teochew dialect and Mandarin using data

My blog: <https://sugarc0de.github.io>

Vocabassist

Designed and built a website in Vue.js and Flask to auto highlight difficult words in any given English text

Demo Link: <http://vocabassist.com/> username: **visitor** password: **easy2learn!**