MICHAEL VYTLINGAM

michael.vytlingam@gmail.com | michaelv.ca | linkedin.com/in/mikevyt | github.com/mikevyt | 416-305-1757

Technical Skills

Languages: TypeScript, JavaScript, Python, Go, Dart, C/C++, MATLAB, Bash, SQL, HTML, SASS

Frameworks: React, Redux, Vue, Express, JEST, React Testing Library, Flutter, Electron, Gorilla MUX, Flask, Django

Datacentric: MongoDB, PostgreSQL, Snowflake, TensorFlow, GraphQL, Numpy, Pandas, Matplotlib

Tools: Git, Docker, Figma, Firebase, Jenkins, AWS, Jupyter Notebook, Postman, vim, VSCode, OSX/Linux/Unix

Experience

Software Engineer

Incoming

Snowflake - Data Exchange Team

San Mateo, CA

Software Engineering Intern

May 2021 - August 2021

Snowflake - Data Exchange Team

San Mateo, CA (Remote)

- · Creating new and captivating experiences on the Snowflake Data Marketplace product in React and Express
- Working alongside product managers, designers and release teams to ensure features release in a timely fashion
- Built reusable and React component for UI framework used org-wide, with consideration for accessibility

Machine Learning Engineering Student

Sept. 2020 - Dec. 2020

BlackBerry - QNX Open Source and Safety Compliance Team

Ottawa, ON (Remote)

- Improving efficiency of NLP-based, open-source license detection pipeline written in Python using fastText
- Reduced file crawling time by 70%, introducing multiprocessing and multithreading

Full Stack Developer Intern

Jan. 2020 - Apr. 2020

CryptoNumerics - Protect Team

Toronto, ON

- Built and shipped new features for cross-platform **Electron** app used for CSV dataset privacy protection
- Led front end application overhaul: added support for ES6, SASS, unit testing, and linting; restructured Redux store to handle application state only; introduced React Hooks and new container component pattern
- Developed internal report generation microservice in Java based on Pentaho, consumed in all company products
- Enforced test driven development using JEST, Spectron, and Azure DevOps CI pipelines preventing regressions

Undergraduate Research Assistant

Sept. 2019 - Dec. 2019

University of Waterloo

Waterloo, ON

- Trained real-time object detection model of kitchen items using Darknet's YOLO for pasta-cooking robot in Python
- Increased model's pan detection accuracy by 28%, introducing synthetic data with improved labeling

Software Engineering Intern

May 2019 - Aug. 2019

Grain Discovery

Toronto, ON

- Utilized React, Redux, DeckGL and Express to build commodity trading, progressive web application
- · Decreased local front end build time by 23%, adding dependency and image optimization to Webpack
- Practiced agile and scrum methodologies in a fast-paced pre-launch startup environment

Software Engineering Intern

Sept. 2018 - Dec. 2018

ENGINEERING.com – ProjectBoard Team

Toronto, ON

- · Worked extensively in Vue, Vuex, Go and MySQL on project collaboration platform with 2M+ monthly users
- Built dashboard to visualize user analytics in Vue, created RESTful endpoints using Go and SQL
- Wireframed and built new home and profile pages in Vue and Vuex with overwhelmingly positive user feedback

Education

University of Waterloo

Sept. 2017 - May 2022

Candidate for BASc in Mechanical Engineering, Artificial Intelligence Option

Waterloo, ON

- · Coursera: Machine Learning by Andrew Ng
- Relevant Courses: Algorithms and Data Structures, Co-operative and Adaptive Algorithms, Intro to Optimization, Numerical Methods, Statistics for Engineers, Microprocessors and Digital Logic, Project Management

Projects

Pancho's Bakery Store Manager | Flutter (Dart), Firebase, Google Cloud Functions, Square

Jun. 2020 - Present

• iOS/Android production app commissioned by Toronto bakery to manage employees, sales and inventory at stores