

MICHAEL VYTLINGAM

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Technical Skills

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

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

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

Tools: Git, Docker, Figma, Firebase, Jenkins, AWS, Jupyter Notebook, vim

Experience

Software Engineer

Sept. 2022 - Present

Snowflake - Marketplace Consumer Experience

San Mateo, CA

- Creating well-tested **React** components using **Typescript** with a focus on accessibility, testability and observability
- Designing APIs in **Node.js** and **Go**, debugging customer issues as on-call using **Snowflake SQL** and **Datadog**
- Increased acceptance rate of optional terms of service by **113%** through adding non-intrusive in-product reminders
- Shipping features to reduce friction on purchasing flows, leveraging **Stripe** APIs to increase conversion on Snowflake Data Marketplace

Software Engineer Intern

May 2021 - Aug. 2021

Snowflake - Marketplace Consumer Experience

San Mateo, CA (Remote)

- Shipped projects related to the launch of on-platform monetization using **React**, **TypeScript**, **Node.js**, and **Go**

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

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 data retrieval in **SQL**
- Wireframed and built new home and profile pages in **Vue** and **Vuex** with positive feedback from customers

Education

University of Waterloo

Sept. 2017 – May 2022

Candidate for BAsC in Mechanical Engineering, Computing Option

Waterloo, ON

- Relevant Courses: Programming for Performance, Data Structures & Algorithms, Co-operative and Adaptive Algorithms, Computational Intelligence, Pattern Recognition, Coursera - Machine Learning by Andrew Ng

Projects

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

Jun. 2020 – Aug. 2022

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