

MICHAEL VYTILINGAM

FULL STACK DEVELOPER

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Skills

Languages: Python, TypeScript/JavaScript, Go, SQL, C++, Bash

Front End: React, Redux, Vue, Vuex, Sass, JEST, Enzyme, Webpack, Babel, Bulma, Semantic UI, Lottie

Back End: Node, Express, Django, Apollo GraphQL, Firebase

Other: Docker, TensorFlow, scikit-learn, Adobe Illustrator, After Effects, Figma

Experience

University of Waterloo / Machine Learning Researcher (URA) **SEPT 2019 – DEC 2019**

- Training **real-time object detection** model of kitchen items using **Darknet**, **YOLO** for use with robot.

Grain Discovery / Software Engineering Intern **MAY 2019 – AUG 2019**

- Utilized **React**, **Redux**, **DeckGL** and **Express** to build Grain Discovery's commodity trading platform
- Incorporated necessary UI/UX Principles to cater to wide range of demographics in agricultural business industry
- Created concise, well-tested visual and functional components with emphasis on **reusability** and **maintainability**
- Designed RESTful endpoints in **Express** to handle user interaction on platform
- Developed smart contracts in **Hyperledger Fabric** to handle commodity transactions on blockchain
- Incorporated Bash scripts, and re-configured builds in order to **streamline CI/CD pipelines**
- Practiced agile and scrum methodologies in a fast-paced pre-launch startup environment

ENGINEERING.com / Software Engineering Intern **SEPT 2018 – DEC 2018**

- Worked extensively in **Vue**, **Vuex**, **Fabric.js**, **Go**, and **MySQL** on online collaboration platform
- Improved internal analytics page with **useful data visualizations** to coincide with business requirements
- Designed and constructed **new home and user profile pages**, incorporating necessary UI/UX Principles
- Performed automated end-to-end testing to mimic frontend user flows using **TestCafe**
- Maintained documentation of services and libraries to decrease onboarding time of new team

Projects

Hack The North 2019 / CodeParrot **SEPT 2019**

- Translates spoken language into Python code, intended for technical discussions and interviews
- **Technologies:** React, Express, Microsoft Cognitive Services Speech (NLP) and LUIS (ML), [Github](#)

ProjectCourtsider **ONGOING**

- Application that generates analytics/insights to determine advertising potential of popular gaming streamers
- Incorporates **Youtube**, **Twitch** and **Mixer APIs** to gauge viability, **trains model to make future predictions**
- **Technologies:** Typescript, C#, React, .NET Core, Postgres (website data), MongoDB (analytics), Docker

Education

University of Waterloo / Mechanical Engineering (BaSc) **SEPT 2017 – APR 2022**

- Cumulative GPA: 83.79%