

# MICHAEL VYTILINGAM

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A passionate, self-driven, and detail-oriented student looking to make worthwhile contributions in the machine learning field.

## Skills

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**Languages:** Python, JavaScript/Typescript, SQL, Bash, MATLAB, Go, Swift, C#, C++

**Technologies:** scikit-learn, TensorFlow, Docker, Firebase, Hyperledger Fabric, CircleCI, Jenkins, React, Redux, Vue, REST, GraphQL, Apollo, Node, Express, Django, PostgreSQL, .NET Core

## Relevant Experience

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### Grain Discovery - Software Engineer

May 2019 - Aug 2019

- Designed machine learning model to predict crop prices for a given year using regression through supervision using scikit-learn
- Utilized React, Redux, Webpack, Babel, DeckGL and Express to build Grain Discovery's commodity trading marketplace
- Created and deployed smart contracts in Hyperledger Fabric to handle commodity transactions on blockchain
- Wrote Bash scripts, created Docker images and configured builds in order to streamline developer pipelines
- Practiced agile and scrum methodologies in a fast-paced pre-launch startup environment

### Engineering.com - Full Stack Developer

Sept 2018 - Dec 2018

- Worked extensively in Vue, Vuex, Fabric.js, Go, MySQL on ProjectBoard, an online project collaboration platform
- Created new analytics page, performed database queries and generated insights based on data received
- Built new homepage, created countdown timer for "Cash For Causes" campaign, redesigned profile page

## Projects

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### CodeParrot (Hack The North 2019)

- Single page application that translates natural language into Python code, intended for technical discussions and interviews
- Languages/Technologies: React, Express, Microsoft Cognitive Services Speech (NLP) and LUIS (ML)

### projectDougScore

- GraphQL API for fictional performance car rental agency, featuring "quirks and features" and scores provided by my favourite Youtube car reviewer, Doug DeMuro.
- Developed algorithm to parse vehicle data from manufacturers' websites for features and performance metrics
- Languages/Technologies: Typescript, Python, GraphQL, Apollo Server, Firebase, [Github](#)

### Courtsider

- Large scale application that generates analytics and insights to determine advertising potential of popular gaming streamers
- Incorporates Youtube, Twitch and Mixer APIs to gauge the streamer's viability and trains ML model to make future predictions
- Languages/Technologies: Typescript, C#, React, .NET Core, Postgres (for website data), MongoDB (for analytics data), Docker

## Education

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Mechanical Engineering - University of Waterloo  
Candidate for B.A.Sc.

Sept 2017 - Jun 2022

Machine Learning with Linear Regression (online lecture series) by Andrew Ng - Stanford University

July 2019