

Kunalan Kevin Subagaran

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Education

Queen's University

BACHELORS IN COMPUTER SCIENCE

Ontario, Canada

Sep. 2019 - Apr. 2023

- Awards: Ratehub Award in Computing, Queen's University Excellence
- Courses: Data Structures, Computer Architecture, Logic for Computing Science, Discrete Math for Computing, Intro to Computer Science

Work Experience

Shop Bonsai

FULL-STACK ENGINEER INTERN

Toronto

May. 2021 - Present

- Techstack: TypeScript, Node.js, Apollo, GraphQL, React.js, MongoDB
- Added features to internal dashboard including product filters, and a user management system for administrators.
- Created external order fulfillment system for use by the Customer Experience team.

Shop Bonsai

SITE RELIABILITY ENGINEER INTERN

Toronto

Jan. 2021 - Apr. 2021

- Techstack: Bash, Terraform, Docker, Kubernetes, Google Cloud, CI/CD, TypeScript, Node.js, Express.js
- Implemented infrastructure as code using Terraform, automating Google Cloud deployments and MongoDB cluster creation.
- Improved monorepo by transitioning to Yarn V2 with local caching speeding up deployment and CI/CD workflows by 18 minutes.
- Revamped Express image API written in TypeScript by decoupling upload/download and splitting into micro-services.
- Optimized Docker build size by over 90% by implementing multistage builds and parent images.
- Enforced best practices with linting and E2E tests through GitHub Actions and Semaphore CI.

Extracurricular Activity

Limestone Capital

DIRECTOR OF TECHNOLOGY

Kingston

Apr. 2021 - Present

- Techstack: HTML, JavaScript, CSS, Bootstrap, jQuery, PHP
- Resolved website bugs and improved Google Lighthouse score by optimizing images, and removing repeated code, and removing unused CSS.

Queen's Tech & Media Association

SOFTWARE DEVELOPER

Kingston

Apr. 2020 - Present

- Techstack: JavaScript, React.js, Node.js, Express.js, Stripe, Firebase, Bootstrap
- Developed Pronto a rental marketplace web app for students.
- Responsible for CRUD system for managing user's posts, user log-in and authentication, refund capability, a custom live messaging component, and a Stripe API to handle secure transactions between users of the application.

Queen's University Algorithmic Network & Trading Team

ALGORITHM DEVELOPER

Kingston

Sep. 2020 - Apr. 2021

- Techstack: Python, NumPy, pandas, scikit-learn
- Created forex trading algorithm which was evaluated and trained on the Quant Connect Platform.
- Used statistical models such as ARIMA to make predictions based on correlation between forex markets and commodities.
- The trading algorithm was able to make a profit of \$90,000, or 1000% from an initial investment of \$10,000.

QMIND

AI DESIGN TEAM MEMBER

Kingston

Sep. 2019 - Apr. 2021

- Techstack: Python, TensorFlow, NumPy, pandas, Flask, React.js, JavaScript, Material UI
- Created an all-in-one Python package for recommender systems and uses a combination of deep, mixed, and matrix-based systems.
- Presented the package at CUCAI - Canada's largest undergraduate AI conference.

Pickering High School

TEACHER'S ASSISTANT

Ajax

Sep. 2018 - May. 2019

- Taught Java, and concepts such as Data Structures and Object-Oriented Programming to over 25 students during my Grade 12 year.

Skills

Languages	JavaScript, TypeScript, HTML, CSS, Python, Java, Kotlin, Bash, C, C#, Go, MATLAB
Technologies	Node.js, Deno, Apollo, REST APIs, GraphQL, MongoDB, Firebase, SQL, Selenium
Frameworks	Express.js, React.js, Svelte, jQuery, Flask, TensorFlow, Gin
DevOps	Docker, Kubernetes, Terraform, GitHub Actions, Semaphore CI, Google Cloud Platform, CI/CD