

Kunalan Kevin Subagaran

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Education

Queen's University

Ontario, Canada

BACHELORS IN COMPUTER SCIENCE

Sep. 2019 - Apr. 2023

- Awards: Ratehub Award in Computing, Queen's University Excellence
- Courses: Data Structures, Computer Architecture, System-Level Programming, Logic for Computing Science, Discrete Mathematics

Work Experience

Shop Bonsai

Toronto

FULL-STACK ENGINEER INTERN

May. 2021 - Present

- Added features to React.js internal dashboard including product filters, and a user management system for administrators.
- Created external order fulfillment system for Customer Experience Team using TypeScript, Node.js, Apollo, and GraphQL.

Shop Bonsai

Toronto

SITE RELIABILITY ENGINEER INTERN

Jan. 2021 - Apr. 2021

- 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 Node.js 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.

Projects

Course Central - 2021

[View Project](#)

- Progressive Web App for students to see a course's historical GPA and enrollment data, and read and write reviews. Built with Next.js, MongoDB, Firebase, Deno, Python, and Selenium.

Infinity & Beyond - 2019

[View Project](#)

- Android Arcade game made with Unity and C#. Currently sits at a 4.9/5 rating on the Google Play Store.

Extracurricular Activity

Queen's Tech & Media Association

Kingston

SOFTWARE DEVELOPER

Apr. 2020 - Present

- Developed Pronto - a rental marketplace web app for students - with React.js, JavaScript, and Node.js.
- Created a CRUD system for managing user's posts, user log-in and authentication with FireBase, 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

Kingston

ALGORITHM DEVELOPER

Sep. 2020 - Apr. 2021

- Created Python 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

Kingston

AI DESIGN TEAM MEMBER

Sep. 2019 - Apr. 2021

- Created a Python package with TensorFlow for recommender systems that uses a combination of deep, mixed, and matrix-based systems.
- Presented at CUCAI - Canada's largest undergraduate AI conference to over 100 industry professionals.

Pickering High School

Ajax

TEACHER'S ASSISTANT

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#, 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