Kunalan Kevin Subagaran

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EDUCATION

Queen's University   Kingston, ON
Bachelors of Computer Science   *Sep. 2019 – Apr. 2023*

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, HTML/CSS, Java, Bash, C, Go, SQL
Frameworks: Express.js, React, Next.js, Svelte, jQuery, Flask, TensorFlow, Bootstrap, Gin
Technologies: Node.js, REST APIs, GraphQL, MySQL, MongoDB, Redis, Selenium, Git, Android Studio, Unity
DevOps: Docker, Kubernetes, GitHub Actions, Semaphore CI, Google Cloud, CI/CD, Terraform

EXPERIENCE

Bonsai   Toronto, ON
Full-Stack Developer Intern   *May 2021 - Aug. 2021*
- Designed an external order fulfillment system that has fulfilled over **$1,600,000** in orders
- Added features to React dashboard such as filters, exporting orders as a CSV, and product verification pipeline
- Reduced API load of Node.js + GraphQL backend by **66%** by optimizing frontend queries
- Implemented a secure password reset flow with reset tokens, IP address and Browser validation, and confirmation emails using Sendgrid's Email API

Bonsai   Toronto, ON
Site Reliability Engineer Intern   *Jan. 2021 - Apr. 2021*
- Automated Google Cloud deployments and MongoDB cluster creation using Terraform, saving development time
- Improved monorepo by transitioning to Yarn V2 with local caching, speeding up CI/CD workflows by **18 minutes**
- Revamped TypeScript Node.js image API by splitting upload and download functions into microservices
- Optimized Docker build size by over **90%** by implementing multistage builds and parent images

PROJECTS

Resume Parser | *React, Next.js, JavaScript, jQuery, HTML/CSS, Vercel, Redis*   Jul. 2021 – Sep. 2021
- Created web app and extension with over **19,000 page views** and a combined **44 stars** on GitHub, that shows parsed resume information
- Made custom analytics solution using Redis with backend hosted as a Vercel edge function

Course Central | *React, Next.js, TypeScript, Chakra-UI, Python, Selenium, MongoDB*   Feb. 2021 – Present
- Engineered a Progressive Web and Android app with **3700+ users** and over **32,000 page views**, that allows students to see a course's historical GPA, enrollment data, and leave reviews
- Utilized Python web scrapers to collect, aggregate, and then upload the data of over 850 courses to MongoDB

Forex Trading Algorithm | *Python, Jupyter Notebooks, NumPy, pandas, scikit-learn*   Sep. 2020 – Apr. 2021
- Developed a Python trading algorithm that made a **profit of over $90,000** from an investment of $10,000
- Formulated ARIMA model to place orders and sells based on correlation between forex and commodities

Pronto | *React, JavaScript, Firebase, Express, Node.js, Stripe API, Bootstrap, CSS*   Apr. 2020 – Feb. 2021
- Built a rental web app that placed **1st** in a pitch competition, and acquired **50 users** with over **$1100** in rentals
- Added a CRUD system for posts, Firebase authentication, live messaging, and transactions with Stripe

Happy Recommender | *Python, Tensorflow, Surprise, Flask, React, JavaScript*   Sep. 2019 – Apr. 2021
- Designed a Python package for deep, mixed, and matrix-based recommendation systems
- Presented an app using the package at Canada's largest undergraduate AI conference to over 100 professionals

LEADERSHIP

Co-Technical Lead   Jul 2021 – Present
Google Developer Student Club Queen's University   *Kingston, ON*
- Tech lead for multiple projects, including maintaining open-source projects and the club's website
- Responsible for creating and hosting technical workshops