Ganan Sivagnanenthirarajah

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Skills & Abilities

- · Languages: Swift, Java, C#, C++, C, Python, HTML, CSS, JavaScript, PHP & PowerShell
- **Technologies:** Jira, Firebase, Git, Postman, OpenCV, Tesseract OCR, Selenium & Embedded Systems

Experience

Technical Product Manager: Mobile Lifton by ADP - New York City

Jan. 2021 - Apr. 2021

- · Carried out company vision of a **metadata driven low-code platform** to create HR solutions for ADP clients
- · Revamped mobile native search with redesigned UX & ML driven APIs for more resilient search results
- · Worked with stakeholders to add **13 new platform features** & resolve 28 bugs; including global translations
- · Increased developer documentation from 15% to 100% & educated stakeholders on platform capabilities

Technical Product Manager: Platform Interfaces Lifton by ADP – New York City June 2020 – Sept. 2020

- · Wrote, groomed & planned 150+ tickets for Platform Interfaces (API, REST & Data Contracts) exceeding KRs
- · Redesigned UI, improved features & added **metrics** for REST Provider; reduced implementation time by 50%
- · Collaborated with stakeholders to create product roadmap, OKRs, PRDs & technical user documentation

iOS Mobile Prototype Engineer Carfax Canada – Waterloo Innovation Lab

Sept. 2019 - Dec. 2019

- · Prototyped an iOS app in **Swift** that provided real-time & historic insights about a user's car & driving habits
- · Implemented key features such as Distracted Driving, Live Maps, Service Records, Trip History & Rewards
- · Revamped user data management to improve load times by over 80% using Firebase & Core Data
- · Other technologies: Core Location, Core Motion, Google Maps SDK, Spotify SDK, Alamofire, Heroku & InVision

Software Developer Nielsen – Markham

Jan. 2019 – Apr. 2019

- · Created a multithreaded app to recognize products in flyers using OpenCV, OCR & machine learning
- · Programmed an application to identify a product's origin by reading its label using **Tesseract OCR**

Hardware & Web Developer City of Toronto Water – Process Control Systems: Networking Apr. 2018 – Aug. 2018

- Designed & implemented a web-based ticketing system for internal forms to increase efficiency by 60%
- · Prototyped wireless relays to remotely control power to Data Collection Units saving \$200 per DCU failure

Projects

Sciatica Nerve Pain Analyzer

Tools Used: DipTrace, Embedded C, I2C, Machine Learning, TI MSP430 LP (Microcontroller)

Jun. 2019

- · Researched chronic sciatica nerve pain management then created a device to aid therapeutic recovery
- Designed a shield for **Texas Instruments MSP430** board after making detailed **schematics** & **PCB layouts**
- · Read sensor data through I2C then made an ML application which alerted users of detrimental motions

2019 University of Toronto Hackathon: Smart Gym Gloves

Tools Used: Arduino, React Native, ESP8266 (Microcontroller), 3D Motion Capture Hardware

Feb. 2019

- · Captured 3D motion, identified 3 activities (bench-press, flies & curls) & analyzed data on accuracy of form
- · Provided live feedback via gloves as information was processed by a microcontroller then sent to the cloud
- · Created a mobile **react native app** where users can track progress, improve form & prevent future injuries

Education

University of Waterloo

2017-2022

· Candidate for Bachelor of Applied Science – BASc, Electrical Engineering