THEEBAN KUMARESAN

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Education

University of Ottawa Ottawa, ON   Apr 2023
Bachelor of Applied Science in Computer Engineering
- Dean's Honour List Recipient
- University of Ottawa Supermileage team - Collaborated with team members to develop a user-friendly and efficient inventory management website (React, Firebase)

Work Experience

Syntronic R&D Canada Ottawa, ON   May 2022 – Sep 2022
Software Developer Co-op
- Collaborated with UI/UX design and front-end development teams to create a user-friendly QA website for 200-300 daily users, resulting in a more aesthetically pleasing and efficient product
- Coordinated with key stakeholders to iteratively design various web page elements in an agile environment, including an interactive 3-dimensional scatter plot (Typescript, ReactJS, NextJS and ThreeJS)
- Maintained and updated mobile (Nativescript, Angular) and WPF (C#) applications by identifying and resolving various UI issues, leading to an improved user experience

ISED Canada Ottawa, ON   Jan 2021 – Apr 2021 & Sep 2021 - Dec 2021
Telecom Technical Officer
- Contributed to the management of a $1.75 billion fund to improve internet infrastructure in deserving rural communities through research and analysis
- Designed and developed a workplace tracker (Microsoft Office, Access SQL) to manage the workload of a team of 12 members, which led to balanced task assignment
- Accelerated speed of Access SQL queries during form generation by resolving redundancies and optimizing queries, decreasing the total time to generate a set of forms by 10%
- Collaborated with team members to iteratively design various agreements and application forms, implementing changes as needed to improve the user experience of funding applicants

CBI Health Group Toronto, ON   Jun 2019 – Aug 2019
Application Support Services Intern
- Managed the daily onboarding and offboarding process for new and terminated employees, ensuring accurate employee records and accounts
- Supervised a ticket queue for a team of 10 members, optimizing the assignment process by developing a ticket management script (PowerShell) that reduced processing time by 30 seconds per ticket

Projects

Proof-of-Purchase (POP) Code - Capstone
- Collaborated with a group of 6 to create an environmentally-friendly alternative to paper receipts through the use of QR codes and verified using blockchain technology on the Ethereum network
- Developed and implemented a smart contract (Solidity, Truffle) to authenticate receipt legitimacy against a relational MySQL database, leading to reduced transactional gas costs by storing only key receipt identifiers
- Designed and developed a mobile application (Flutter, Dart) iteratively, serving as both the GUI and point of sale system using Stripe, resulting in a seamless user experience

Skills

Languages: Python, Javascript, Typescript, HTML/CSS, Java, Swift, SQL, VBA, GO, Solidity, C#
Technologies: ReactJS, NPM, MySQL, Bash, Git, Docker, Angular, Nativescript