Maneesh Withanagamage

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EDUCATION

York University   Toronto, Canada
Honours Bachelor of Engineering, Specialized in Computer Engineering   *April 2021*
• Notable Courses: Software Design Patterns, Operating Systems, VLSI, Computer Architecture, Relational Databases.

SKILLS

Languages: JavaScript, Java, SQL, HTML/CSS, C, System Verilog, Embedded C
Software Tools: Node.js, Express.js, React.js, MySQL, MATLAB, RESTful APIs
Hardware: Cadence Virtuoso, HSPICE, Innovus

EXPERIENCE

4PAY   Toronto, Canada
Technical Analyst   *Apr 2020 - Sept 2020*
• Designed a proof of concept Block-chain using React for front end and Express for back-end.
• Proposed AWS Quantum Ledger Database as a solution to increase security of the company's ledgers.
• Increased efficiency by **over 50%**, automating the documentation of the company's main system with **500+** APIs.
• Assisted another team with creating a MVP for an app that was in the research phase.

CIBC   Toronto, Canada
IT Project Coordinator - Payments Modernization   *Jan 2019 - September 2019*
• Assisted the Quality Assurance (QA) team in writing requirements/user-stories for an automated reporting tool.
• Published project reports for the executive team: closure reports, requirements reports, and business reports.
• Reconciled monthly finances for seven projects and thus, improved efficiency for monthly budget allocations by **50%**.
• Developed a proof of concept mobile app on improving their current mortgage application.

PROJECTS

Hospital Communication Application
Capstone Project
• Built a real time service for physicians and nurses to communicate efficiently in a busy hospital environment.
• Implemented privacy and security protocols that are compliant with PHIPA and HIPAA standards.
• Designed and implemented a database schema that would capture the complex communication network in hospitals.
• Built a RESTFul API that allowed the front-end to access and manage data.
• Technologies used: React, Express, REST API, MySQL, Figma, Postman

Express Parking
Personal Project
• Designed and built both the front-end and back-end for a parking management system.
• Used a System Requirement Specification (SRS) document from a past course to get the necessary requirements.
• Technologies used: React, Express, Rest API, MySQL, Figma, Postman

ASIC - Least Recently Used Algorithm
Course Project
• Developed and implemented the LRU algorithm on a 1.5x1.5 mm^2 40-pin chip in a 0.6-μm processor.
• Designed behavioural System Verilog code and tested using test benches before performing a RTL synthesis.
• The schematics and layouts for certain modules were custom created using Cadence Virtuoso.
• Technologies used: System Verilog, Virtuoso, Innovus, HSPICE, Synopsys Design Compiler