GINO SALAYO

Software Engineer

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SKILLS

Languages Java, Python, JavaScript, HTML/CSS
Technologies Node.js, React, React Native, Redux, Express, MySQL, MongoDB, GitHub, Unix

EXPERIENCE

Computers and Control Design Intern May 2017 – July 2018
Ontario Power Generation Pickering, ON

- Tested and debugged a **C#** toolset used for verifying nuclear power plant data by utilizing acceptance testing and boolean logic, leading to deployment for station use
- Created a **VBA** script using file parsing, iteration, and conditional logic to automate manual inventory checks and reduced time needed by 99%
- Managed information display system using knowledge of client-server architecture to maintain an uptime of 99%

PROJECTS

COVID-19 Contact Tracing App (github.com/filigino/trace-app) Personal Project

- Developed a full stack mobile app for COVID-19 contact tracing that uses **Node.js** and **JavaScript** to utilize Bluetooth to detect proximity to other users within a 20 foot radius
- Built the user interface using **React Native** and **Redux** which communicates with a server via **REST API**
- Constructed the back-end **Express** web server which stores data in a **MongoDB** database

Pathfinding Visualizer (github.com/filigino/pathfinder) Personal Project

- Created a **Python** program that implements depth-first search, breadth-first search, and A* search in a graphical user interface that allows for visualization of the algorithms

8-Bit Image Pixelator (github.com/filigino/8-bit-img-pixelator) Personal Project

- Built a **Java** program using object-oriented programming, recursion, and the median cut algorithm to generate an 8-bit style pixelized version of a selected image

Smart Farm System McMaster Software Department Capstone – **1st Place**

- Developed a prototype that collects and analyzes farm data to optimize resource usage and crop yields
- Designed a solar-powered chassis to power and house the **Raspberry Pi** data collection unit
- Collaborated in a group of 7 using **agile** development methodologies to organize affairs

EDUCATION

Bachelor of Engineering, Mechatronics (Co-op) Completed April 2019
McMaster University Hamilton, ON

- Graduated **summa cum laude – GPA 3.8 / 4.0**