

Jerry Theronier

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RELEVANT EXPERIENCE

Software Engineer, Blue Innovations Group

June 2023 – Present

- Developed a Node.js-based Redis API, integrated into an Electron utility process, for managing user settings, preferences, and profiles, leveraging message ports for efficient communication.
- Implemented dynamic embedding of third-party applications within an Electron framework, seamlessly integrating external websites to reduce the time and complexity for developers to integrate other third-party applications.
- Engineered a plugin for interpreting and processing proprietary NMEA 2000 messages, enabling communication with NMEA 2000 devices using the SignalK open-source library, allowing the company to use off-the-shelf components instead of designing them in-house.
- Developed a GNOME Shell extension that dynamically repositions the on-screen keyboard based on the active monitor, enhancing user accessibility.
- Led end-to-end instrumentation of New Relic monitoring across all company apps, strategically placing monitoring code blocks to automate feedback process, improve debugging, and reducing system downtime by 15%.
- Spearheaded weather map proof of concepts and recommended what service the team should use.
- Successfully contributed to the transition of an Angular application to SolidJS, optimizing FPS by 30% and CPU usage by 40%.

Software Engineering Intern, Blue Innovations Group

June 2022 – December 2022

- Engineered a comprehensive system to visualize Electronic Navigational Charts, establish waypoints, and showcase points of interest. Demonstrated the solution at CES.
- Leveraged Angular framework and leaflet library to implement dynamic chart layers, resulting in an interactive and engaging user interface.
- Constructed wiring harnesses for laboratory development, contributing to streamlined testing and prototyping processes.
- Played an integral role in the ground-up development, design, and coding of Human-Machine Interfaces (HMIs).

SAF-CDMA Intern, USF Institute of Applied Engineering

August 2022 – December 2022

- Developed a secure office management web application for a Classified U.S. Military office, enhancing operational efficiency and data management.
- Utilized Angular Framework and Firebase to create an intuitive office seat map with dynamic employee information displays.
- Designed and implemented a user-friendly database management interface, enabling seamless addition, modification, and removal of employee records.

SKILLS

Frontend:	Typescript, JavaScript, HTML, CSS
Backend:	Golang, C++, SQL
Frameworks:	Electron, Angular, React, Solid JS, .NET, Gin Web Framework, Node.js
Tools:	Docker, Redis, Git, GitHub, Coolify, AWS, New Relic, SSMS
OS:	Windows, Linux

EDUCATION

Bachelor of Science in Computer Science, University of South Florida, Tampa, FL

August 2023

Minor in Entrepreneurship & Innovation, University of South Florida, Tampa, FL

August 2023

Major GPA: 3.44 / 4.0; **Minor GPA:** 4.0/4.0.

Key specialized courses: Data Structures, Secure Coding, Software Engineering, Database Design, Analysis of Algorithms, Automata Theory/Formal Languages, Intro to AI, Computer Organization, Computer Architecture, Operating Systems

Projects

[Radar \(complete\)](#) – An IOT project creating an ultrasonic radar, using an Arduino Nano RP2040 Connect, ultrasonic sensor and a piezo buzzer.

[Leftover Love](#) – A platform that connects the leftover and otherwise wasted food from restaurants to those who need it most. submission for shellhacks 2023 hackathon.

[Personal site \(in progress\)](#) – A single page application using SolidJS to showcase my skills, projects, and interests.