Reneca Capuno

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EDUCATION

University of Florida | Gainesville, Florida — August 2021 - May 2025

B.S. in Computer Science

- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Information & Database Systems, UX Design, Programming Language Concepts, Introduction to Machine Learning, Integrated Product & Process Design
- **Awards/Honors:** Dean's List Fall 2024

SKILLS

Languages: JavaScript, TypeScript, Python, Java, Kotlin, Scala, C++, C, SQL, HTML, CSS
Libraries/Frameworks: React, React Native, Node, Express, Electron, Selenium, Jitsi Meet, Pandas, Scikit-learn, Keras
Tools: Git, AWS, GCP, Docker, Expo, Android Studio, PostgreSQL, Snowflake, Jupyter Notebook, Figma, Postman

TECHNICAL EXPERIENCE & ACTIVITIES

SyncAssist - Developer | Sponsored by *Freedom Scientific* | Blog — August 2024 - May 2025

- Developed a cross-platform accessibility application in collaboration with Freedom Scientific to extend JAWS Tandem, enabling real-time collaboration between sighted and visually impaired users
- Built with React, React Native, Electron, Node.js, and lib-jitsi-meet, emphasizing accessibility, responsiveness, and reliability; implemented remote control with nut.js and optimized latency via WebRTC internals and server analysis
- Enhanced accessibility and teamwork by integrating WebRTC video conferencing using lib-jitsi-meet (SFU model) and public STUN/TURN servers, ensuring seamless communication across web, desktop, and mobile platforms
- Led performance testing infrastructure by deploying Dockerized Selenium Grid on GCP VMs to simulate multi-user load using custom TypeScript test scripts and evaluate system stability under various traffic scenarios
- Collaborating with team members, liaison engineers, coaches, and the open-source community to clarify integration details, exchange feedback, and manage development using GitHub and Agile Kanban

CSAA Insurance Group - Software Engineer Intern | Remote — May 2024 - August 2024

- Successfully transitioned twelve Guidewire jobs to AWS EMR Serverless by refactoring bash scripts and Scala files
- Built custom SQL queries in Snowflake to access S3 stages, pulling data to validate job success; further implemented comprehensive validation processes using Snowflake, EMR Studio, and audit files
- Collaborated cross-functionally with data engineering and API teams to identify and resolve technical challenges
- Received feedback during weekly mentor check-ins and effectively implemented development improvements

UF Women in Computer Science & Engineering - Internal Mentor — August 2023 - December 2023

- Facilitated monthly active days, technical practice sessions, and collaborative study groups, fostering a supportive learning environment that increased program and peer engagement
- Designed and led hands-on workshops on Data Structures & Algorithms, Dynamic Programming, and Git version control best practices, improving mentees' problem-solving skills and technical confidence

PROJECTS

JobDash | React, Node, Express, Railway PostgreSQL, REST API, HTML, CSS, Docker, Git — View on GitHub

- Designed and developed a full-stack application to help users efficiently track and organize job applications with features like visual timelines and performance analytics, streamlining application management
- Implemented RESTful API endpoints to handle CRUD operations for job applications, connecting to the database
- Containerized application using Docker to ensure consistent deployment environments across development

Nature Nexus | React, Node, Express, PostgreSQL, REST API, HTML, CSS, Git — View on GitHub

- Built a data visualization platform for Austrian Bird Population trend analysis with interactive frontend displays
- Designed and implemented a backend REST API with Node.js/Express to fetch and process data from the database

Dog-Tinder | Kotlin, Android SDK, XML, Gradle, Android Studio, Git — View on GitHub

- Developed a native Android application for matching dogs with potential owners using The Dog API for data intake
- Implemented custom UI components and efficient data handling for a smooth mobile experience

Toy Compiler | Java, JUnit, IntelliJ, Git — View on GitHub

- Developed in Java using OOP principles, featuring a Lexer, Parser, Interpreter, Generator, and Semantic Analyzer; developed incrementally with robust testing through JUnit to ensure reliability