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
- Collaborated 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

- Transitioned 12 Guidewire batch jobs to AWS EMR Serverless by refactoring Bash scripts and Scala files, improving scalability and reducing infrastructure overhead; monitored batch runs with Grafana dashboards
- Developed Snowflake SQL queries to access S3 stages, validating end-to-end job success for personal and commercial claims data; implemented robust validation processes using Snowflake, EMR Studio, and audit files
- Used Splunk and AWS API Gateway to monitor and troubleshoot the behavior of internal API architecture, ensuring stability and performance across services
- Collaborated cross-functionally with data engineering and API teams to resolve technical challenges; integrated feedback from weekly mentor check-ins to strengthen communication and professional development

PROJECTS

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

- Designed and developed a full-stack application to help users effectively track and organize job applications with features like visual timelines and performance analytics, streamlining application management
- Architected a normalized PostgreSQL schema and implemented RESTful endpoints to support CRUD operations
- Containerized with Docker for consistent local and deployment environments, enabling efficient collaboration

Research, Plan, Learn - ShellHacks | React, Node.js, Express, OpenAI API, REST API, Docker, Git — View on GitHub

- Built a full-stack study-planner application that generates personalized learning guides using the OpenAI API
- Designed and implemented the React frontend with real-time API integration and built backend REST endpoints to deliver AI-generated content to the client
- Delivered a functional MVP in 36 hours through effective task coordination, communication and rapid iteration

Mock Compiler | Java, JUnit, IntelliJ IDE, Git — View on GitHub

- Designed and implemented a modular 5-stage compiler pipeline capable of translating text input into executable behaviors using Object-Oriented design principles
- Engineered robust error-recovery and semantic-validation mechanisms to detect syntax errors, type mismatches, and undefined symbols with precise diagnostic feedback
- Ensured high reliability by developing a comprehensive JUnit test suite with broad coverage across all subsystems