

Rainier Joshua Tabelon

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EDUCATION

University of Florida – Herbert Wertheim College of Engineering

GPA: 3.98/4.0

Bachelor of Science in Computer Science, Minor in Electrical Engineering

Aug 2023 – May 2027

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Architecture, Applied Software Engineering, Machine Learning Fundamentals, Data Science for ECE, Engineering Statistics, Linear Algebra, Databases, Full Stack IoT Dev, Programming Language Concepts, Natural Language Processing

EXPERIENCE

Software Engineering Intern

Oct 2025 – Present

AKIO AI

Gainesville, FL

- Developed therapist and parent dashboards in **React** and **Tailwind CSS**, using a clear component hierarchy and encapsulated logic to support a scalable front-end architecture.
- Designed user-centered dashboard interfaces in **Figma**, translating product requirements into clear UI flows.
- Built reusable, parameterized front-end components to reduce duplication, improve code maintainability, and streamline future feature development across the platform.

Software Engineering Intern

May 2025 – Jun 2025

EDU Africa, Housing Assembly

Cape Town, South Africa

- Built a secure, full-stack **MERN** web platform to digitize housing audits for **600K+** residents, improving transparency and combating corruption.
- Visualized comprehensive statistics across all housing audits, presenting demographic, regional, and waiting-time data through interactive dashboards for data-driven insights.
- Implemented **React** components with pagination and lazy loading, reducing initial load times by **50%**.
- Designed interactive prototypes in **Figma** and translated them into responsive interfaces using **Tailwind CSS**, ensuring usability across devices.
- Optimized **MongoDB** queries by indexing frequently searched fields, improving dashboard performance by **2×**.
- Conducted iterative usability testing and client interviews with **22** users to inform architecture and improve navigation in an **Agile** workflow.

LEADERSHIP & INVOLVEMENT

Back-End Team Lead

Sep 2025 – Present

Society of Asian Scientists and Engineers

Gainesville, FL

- Lead a **9-member** backend **Scrum** team in developing and maintaining scalable APIs for the UF SASE website.
- Host weekly team meetings to track progress, align priorities, and ensure timely delivery of features.
- Review pull requests to ensure code quality and adherence to best practices.

Front-End Team Lead

Aug 2024 – Jul 2025

Data Science for Sustainable Development

Gainesville, FL

- Directed **11 developers** to build an interactive web app visualizing Superfund sites using **Leaflet**.
- Implemented tile-layer caching and marker clustering, reducing map load times by **40%**.
- Enforced coding standards, testing, and documentation to produce maintainable and robust code.
- Deployed **CI/CD** workflows with **GitHub Actions**, reducing release errors by **60%**.

PROJECTS

PicklePortal | *ESP32, TypeScript, React, Node, Express, Jest, Firebase, Render, Vercel*

Aug 2025 – Present

- Develop a real-time pickleball court occupancy and queue management system, synchronizing live updates across web dashboard and LCD displays to improve player experience.
- Create unit and integration tests, ensuring robust and reliable front-end and back-end functionality.
- Secure all communications with HTTPS and SSL, protecting user data and enhancing overall system security.

FireFinder | *AWS Cognito, AWS SNS, React, Node, Express, MongoDB, Google Maps API*

Feb 2025 – May 2025

- Engineered a wildfire tracking platform powered by the NASA EONET API, employing WebSockets for new fire events to appear instantly on the live map without page refresh.
- Implemented token-based secure user authentication to enable protected access to personalized alerts and settings.
- Integrated push notifications to deliver region-targeted alerts, enhancing user awareness and safety.

TECHNICAL SKILLS

Languages: Python, C++, TypeScript, JavaScript, Java, HTML, CSS, SQL

Frameworks & Libraries: React, Express, Jest, Tailwind CSS, Leaflet

Tools & Technologies: AWS, Git, GitHub Actions, VS Code, Figma, Node, PostgreSQL, Firebase, MongoDB, Postman