

# Rainier Joshua Tabelon

[rj.lim.tabelon@gmail.com](mailto:rj.lim.tabelon@gmail.com) | +1 (813) 812-2049 | [linkedin.com/in/rj-tabelon](https://linkedin.com/in/rj-tabelon) | [github.com/RJ-Tabelon](https://github.com/RJ-Tabelon) | [rjtabelon.com](http://rjtabelon.com)

## EDUCATION

<b>University of Florida – Herbert Wertheim College of Engineering</b> <i>Bachelor of Science in Computer Science, Minor in Electrical Engineering</i>	GPA: 3.98/4.0
	Aug 2023 – May 2027

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Architecture, Software Engineering, Programming Language Concepts, Full Stack IoT Development, Computer Networks, Internet Storage Systems

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** React, Redux, Node, Express, Fastify, Jest, Tailwind CSS, Socket.IO

**Infra & DB:** AWS (EC2, S3, RDS), Docker, Docker Compose, Linux, Nginx, PostgreSQL, MongoDB, Redis, Firebase

**Tools:** Git, GitHub Actions, Postman, Figma, Jira, Copilot, Codex

## EXPERIENCE

<b>Software Engineering Intern</b> AKIO AI	Oct 2025 – Present Gainesville, FL
<ul style="list-style-type: none"><li>Reduced real-time speech response latency from 4s to 2s by eliminating per-request TCP overhead with persistent WebSockets and using in-memory audio buffers with concurrent disk I/O in a Unity-to-Go voice pipeline</li><li>Executed a zero-data-loss migration from self-hosted PostgreSQL to AWS RDS, validating full schema and data integrity and coordinating a safe cutover with rollback guarantees</li><li>Built a React speech analytics dashboard aggregating 10K+ speech events for therapists to track client performance, improving UI responsiveness by 60% through memoization and batched updates</li></ul>	
<b>Backend Team Lead</b> Society of Asian Scientists and Engineers (SASE)	Sep 2025 – Present Gainesville, FL

- Led backend development on a 9-member Agile team, defining sprint scope and enforcing service ownership
- Developed an alumni bank update pipeline that ingests all stored LinkedIn profiles via an MCP server, atomically updating 200+ organization-wide alumni records in a single sync

**Software Engineering Intern**  
EDU Africa

May 2025 – Jun 2025  
Cape Town, South Africa

- Built a MERN platform digitizing public-sector housing audits, replacing paper workflows across 30 municipalities
- Implemented server-side pagination and filtering over a 600K+ record dataset, preventing client overfetching
- Added Redis caching for read-heavy REST endpoints, improving scalability under concurrent access

## PROJECTS

<b>KoalaKite (Hackathon Winner: Best Use of GitHub)</b>   <i>Manifest V3, Gemini API, Fastify, React, MongoDB</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>Developed a parental monitoring browser extension with real-time harmful content detection using Gemini Vision AI</li><li>Implemented client-side perceptual hashing for image deduplication, reducing redundant API calls by 60%</li></ul>	
<b>CoreCRM</b>   <i>AWS EC2, Docker, Nginx, Jest, Express, Node, PostgreSQL, Neon, Drizzle ORM, JWT, Arcjet</i>	<a href="#">Source Code</a>

- Shipped a production CRM platform with strict relational integrity, role-based access control, and API rate limiting
- Automated a CI/CD pipeline with GitHub Actions to test, build, and deploy Dockerized services to a remote VM over SSH, cutting deployment time by 60%

**PicklePortal** | *Python, Ultralytics YOLOv8, C++, Arduino, ESP32, Firebase RTDB*

- Engineered a distributed IoT system integrating ESP32 cameras, computer vision model, and Firebase Realtime Database to track pickleball court occupancy and queues in real time
- Reduced object detection latency by 50% by streaming frames to a persistent YOLOv8 worker process, eliminating per-request cold starts and model reloading overhead