Kyle Yumul

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Education

University of Florida – *B.S. in Computer Science; AI Applications Certificate* May 2028

Awards: Dean's List Fall '24, Fall '25, Spring '26 **GPA**: 3.7/4.0

Relevant Courses: Data Structures & Algorithms, Operating Systems, Software Engineering, Databases, AI Fundamentals, Computational Linear Algebra

Experience

Software Engineer Team Lead – *Stelier* Jun 2026 – Present

- Architected a cross-platform mobile marketplace for hand-crafted goods and services using **React Native, Expo, Supabase, and PostgreSQL**, leading a **3-person team** across product, auth, marketplace, and booking workflows
- Devised and prototyped **4 marketplace workflows** in Figma, including vendor discovery, custom commissions, and **multi-criteria filtering** across category, budget, turnaround time, and fulfillment

Software Engineer Team Lead – *Society of Asian Scientists and Engineers (SASE)* Sep 2025 – Present

- Improved the official SASE website's events page and modernized attendance collection and tracking for **500+ members** using **React Router, TanStack Query, Turso, and Drizzle ORM**
- Directed a **8-person team** of developers in the full-stack and UI/UX development of the official UF SASE mobile app using **React Native**, driving core cross-platform architecture and user-centric interface design

Software Engineer Intern – *BeachLens* Apr 2026 – Jul 2026

- Achieved **sub-100ms** interaction speeds across a database of **100+ beaches** by engineering a **memoized discovery engine** that synchronizes real-time data through a NOAA API from 4+ relational tables using **Next.js** and **Supabase**
- Optimized geospatial data accuracy for coastal safety by implementing a **nearest-neighbor proximity algorithm** that matches **100+ beach locations** with the closest environmental sampling stations from NOAA and FWC

Software Engineer Mentorship – *Citibank* Mar 2026 – Apr 2026

- Selected from **4,000+ applicants** for Citi's 2026 Early Identification Technology Program, completing technical mentorship focused on software infrastructure and agile engineering

Projects

Ball Knowledge | *Python, AWS, PostgreSQL, pgvector, Groq, Docker* Sep 2026 – Present

- Built a **Python/PostgreSQL** soccer ETL pipeline for **462,000+ events across 128 matches**; deployed idempotent validation and ingestion using Amazon S3, AWS Lambda, Boto3, and least-privilege IAM
- Trained a leakage-controlled **scikit-learn logistic regression** xG model on **3,100+ non-shootout shots** using spatial and contextual features, achieving **0.775 ROC-AUC** and a **0.077 Brier score** on a test group of 26 random matches
- Developed a Dockerized match-scoped RAG assistant with **FastAPI, pgvector, and Groq**; indexed **1,147 cited evidence chunks** with source-grounded responses and **58 ms median retrieval latency**

Whatchu Get? | *TypeScript, React Native, Expo, Supabase, PostgreSQL* Jul 2026 – Sep 2026

- Created a cross-platform restaurant dish-rating mobile application and website with item-level reviews, bookmarks, photo moderation, profiles, and a follow-scoped feed, integrating **Apple Maps discovery** with canonical chain menus
- Engineered **Apple Maps restaurant discovery** with **5 concurrent MKLocalSearch queries** on iOS and **MapKit JS/Server API** on the web version, delivering accurate nearby results across native and web clients
- Secured a **Supabase/PostgreSQL backend** across **43 ordered migrations and 7 Edge Functions** with row-level security, guarded RPCs, fail-closed AI moderation, atomic multi-layer rate limits, and Apple Place-ID-only persistence

AKA GOAT | *C++* Nov 2025 – Dec 2025

- Constructed a C++ CLI ranking **90,000+ players** across **2,000+ teams** with a custom weighted scoring system; reduced sorting time from **114ms to 16ms** by replacing $O(n^2)$ logic with an $O(n \log n)$ algorithm
- Integrated CPR and OpenCV into an HTTPS image pipeline that fetched, resized, and color-processed player assets for display through an accessible terminal interface

Technical Skills

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

Frameworks/Technologies: React, React Native, Expo, Next.js, Node.js, ChatGPT Codex, Claude Code, Spring Boot, FastAPI, Streamlit, NumPy, scikit-learn, Boto3, Sentence Transformers, Drizzle ORM, Groq API

Cloud/DevOps: Docker, Supabase, Git, AWS (S3, Lambda, IAM, CloudWatch), PostgreSQL, pgvector, Redis, Turso