

Ralph Clavens Love Noel

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EDUCATION

Valencia College, Seneff Honors College

Associate in Arts (A.A.), Computer Science

- Organizations: Knight Hacks, Source Code, ColorStack, SEO Career

Orlando, FL

Expected May 2027

EXPERIENCE

Career Fellow, Edge Technology

Feb. 2026 – Present

Sponsors for Educational Opportunity (SEO) [↗](#)

Remote

- Completing technical modules in **data structures**, **algorithms**, and **interview preparation** through SEO's Edge Technology career track targeting enterprise software engineering internships.

Software Engineering Mentee

Aug. 2025 – Apr. 2026

Knight Hacks [↗](#)

Orlando, FL

- Shipped full-stack prototypes across **4+ hackathons**, winning **1st place** at SwampHacks XI out of **28 teams** by scoping, building, and debugging under 36-hour deadlines.
- Designed, built, and deployed a full-stack application through Knight Hacks' **Project Launch** program, collaborating with a **5-person team** under mentor guidance.

Possibilities Series 2026 Participant

Apr. 2026

Goldman Sachs [↗](#)

Virtual

- Participated in Goldman Sachs' first-year program spanning **4 workshops** on Wall Street fundamentals, career strategy, and professional branding while networking with firm professionals.

PROJECTS

OBI [↗](#) | PyTorch, CLAP, librosa, Qdrant, FastAPI, Next.js, TypeScript

- Built an **audio-similarity search engine** ("Shazam for producers") with a **5-person team**, enabling **multimodal search** via text, file upload, and live microphone against a **CLAP-embedded Qdrant** vector database.
- Engineered the full **Next.js 16 + React 19** frontend in **TypeScript**, implementing a custom **SVG waveform player**, cinematic **Framer Motion** scanning overlay, drag-and-drop upload, and a Now Playing bar with queue management.
- Integrated frontend with the **FastAPI** backend and ML pipeline, wiring all search inputs to the **cosine similarity** retrieval API and deploying to **Vercel** with the backend on **Railway**.

TransferTrack [↗](#) | Swift, SwiftUI, CoreML, VisionKit, AppIntents, SwiftData, MapKit

- Shipped a **fully offline iOS app (6,200+ lines, 12 frameworks, zero dependencies)** that surfaces hidden transfer costs existing tools miss, serving **2.6M+** annual U.S. transfer students with personalized forecasts across **31 community colleges** and **34 universities**.
- Eliminated manual transcript entry with **VisionKit** live OCR, reduced decision fatigue via an on-device **CoreML** Viability Score (0–100), and enabled hands-free access through **AppIntents + Siri Shortcuts**.
- Architected three **fallback chains** (network to cache to bundled data) with **SwiftData** persistence ensuring zero data loss offline, and improved first-session retention through **TipKit** contextual onboarding.

PayPals [↗](#) | React, Python (FastAPI), MongoDB, Three.js, Solana, Gemini

- Won **1st Place (28 teams)** for **Capital One's Best Financial Hack** at SwampHacks XI by shipping a fintech prediction market in **36 hours** that lets users compete on real-world financial forecasts.
- Built the **React + TypeScript** frontend with **Tailwind CSS** and **Three.js** for interactive **3D rendering**, and wired the UI to the **FastAPI** backend for real-time user profiling and goal generation via **Google Gemini**.
- Delivered a multi-page UI spanning onboarding, lobby, and betting flows, coordinating **Git** workflows across a **4-person team** to resolve merge conflicts and deploy via **Railway**.

TECHNICAL SKILLS

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

Libraries/Frameworks: SwiftUI, React, Next.js, Node.js, FastAPI, Express, Tailwind CSS, PyTorch, Three.js, librosa, CLAP, CoreML, VisionKit, Framer Motion, Google ADK, Gemini

Tools/Platforms: Git, GitHub, Docker, Xcode, AWS, GCP, MongoDB, Qdrant, Firebase, Vercel, Railway, Figma, CI/CD