

Layla Le

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EDUCATION

University of Central Florida 3.87/4.00 GPA

Orlando, FL

B.S. in Computer Science, Minor in Biomedical Engineering

Expected Graduation: Fall 2027

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Algorithms for Machine Learning, Discrete Structures, Mobile Development, Programming Languages

Extracurriculars: SASE, SHPE, Girls Who Code, ACM, Knight Hacks

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, C#, C, C++, Dart, HTML, CSS

Frameworks: React.js, React Native, Node.js, Express.js, Electron.js, Flutter, Tailwind CSS

Tools: Docker, Git/GitHub, AWS, Firebase, GraphQL, Postman, Vite, Vercel, Figma, Notion, LaTeX

Libraries: Apollo Client, MongoDB, MySQL, Redis, Pinecone, TensorFlow, Axios, Material UI, jQuery, Unity

Certification: AWS Certified Cloud Practitioner – Issued Oct 2025

EXPERIENCE

Human Factors Undergraduate Research Assistant

May 2025 - Present

APPLeSEEd Lab – University of Central Florida

Orlando, FL

- Operated BIOPAC systems with AcqKnowledge to capture ECG, EDA, respiration, and fNIR data from **20+ participants**, ensuring accurate signal collection
- Applied Tobii Pro Lab for eye-tracking analysis and assisted with fNIR studies using COBI Studio Modern and fnirSoft, achieving **95%+ reliability** in measurements
- Completed 3 CITI Program certifications and **15+ practice trials** to master research protocols while maintaining safety and ethical standards

PROJECTS

Passport Buddy | React.js, Flutter, TypeScript, Dart, MongoDB, GraphQL, Three.js, Docker

July 2025

- Developed a travel platform combining flight tracking with social networking, stress-tested with **10,000+ users**
- Designed an interactive 3D globe within a React frontend, achieving **95+ Lighthouse scores and <200 KB bundles**
- Connected GraphQL with Apollo Client for API communication and social media feed synchronization
- Integrated cross-platform PWA with **98% accurate** OCR boarding pass scanning (Google Cloud Vision)
- Employed DevOps practices including Docker containerization and CI/CD pipelines

Medi-Mate | React.js, React Native, TypeScript, Node.js, Firebase, Pinecone, OpenAI, Docker

September 2025

- Built an Electronic Health Record mock system tested with **1,000+ Synthea-generated patient records**
- Created patient, doctor, and admin portals for medication, scheduling, vital records, and audit tracking
- Leveraged **Firebase BaaS** for multi-factor authentication, data sync, and real-time FCM notifications
- Implemented vector-based conflict/duplicate detection achieving **95% accuracy** using Pinecone and OpenAI
- Deployed Node.js microservice architecture in Docker to handle medication analytics with **<100 ms latency**

Alignr | React.js, Typescript, Firebase, Snowflake Cortex, Google Gemini, Docker

October 2025

- Architected modular event planning platform with 8 interactive block types enabling real-time multi-user coordination
- Utilized **Firebase Functions with Gemini 2.0 Flash and Cortex AI** for context-aware suggestions and analytics
- Designed collaboration features including availability heatmaps, location voting, and budget management
- Shipped Firebase Storage for photo uploads, RFC-compliant .ics generation, and containerized deployment via Docker