

Layla Le

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EDUCATION

University of Central Florida

B.S. in Computer Science, 3.87/4.00 GPA

Awards: President's Honor Roll, Dean's List

Orlando, FL

Expected Graduation: Fall 2026

TECHNICAL SKILLS

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

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

Tools: Docker, Git/GitHub, Google Cloud, AWS, Postman, Vite, Vercel, REST Client, Figma, Notion, LaTeX

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

EXPERIENCE

Human Factors Undergraduate Research Assistant

May 2025 - Present

APPLeSEEd Lab – University of Central Florida

Orlando, FL

- Operated **BioPac biometric systems** (ECG, EEG headband, electrodermal sensors, respiratory monitoring) to capture physiological data during cognitive load experiments
- Facilitated **human-computer interaction studies** analyzing programmer performance and stress responses while solving C programming challenges
- Executed **data collection protocols** and performed equipment calibration, ensuring reliable measurements for research on cognitive load and stress

PROJECTS

Passport Buddy | *React.js, Flutter, TypeScript, Dart, MongoDB, Apollo Client, GraphQL, Docker*

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

Medi-Mate | *React.js, React Native, TypeScript, Node.js, MongoDB, Pinecone, Docker, OpenAI, Redis*

- Engineered medication reminder platform **tested with 1,000+ users**, providing prescription tracking, AI scheduling, and adherence monitoring
- Built **React/React Native apps** with **Node.js microservices** for scalable, seamless cross-platform delivery
- Created **Express.js REST API** for medication CRUD operations, reminder generation, and JWT auth with **99.9% uptime** and **<100ms latency**
- Implemented vector-based conflict/duplicate detection achieving **95% accuracy** using Pinecone and OpenAI
- Orchestrated Docker Compose deployment of **6 services** (MongoDB, Redis, Nginx) for reliable infrastructure