

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, Florida Academic Scholars

Orlando, FL

August 2023- December 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, 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

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, 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

EXTRACURRICULARS

Activities and societies: SASE, SHPE, Girls Who Code, ACM, Knight Hacks