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*
Awards: President's Honor Roll, Dean's List, Florida Academic Scholars
Extracurriculars: SASE, SHPE, Girls Who Code, ACM, Knight Hacks

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, C#, C, C++, 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, Firebase, Pinecone, OpenAI, Docker*
- 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**

CERTIFICATION

AWS Certified Cloud Practitioner – Amazon Web Services *(Issued Oct 2025)*