

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

August 2023 - Present

Expected Graduation: Fall 2026

TECHNICAL SKILLS

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

Frameworks & Libraries: React.js, React Native, Node.js, Express.js, Electron.js, Unity, Flutter, Chakra UI, Tailwind CSS, Bootstrap, Axios, Apollo Client, GraphQL

Tools: Docker, Git/GitHub, REST Client, MongoDB, Redis, Pinecone, Vite, Notion, Figma, Postman

EXPERIENCE

Human Factors Undergraduate Research Assistant

May 2025 - Present

APPLeSEEd Lab – University of Central Florida

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

PROJECTS

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

- Collaborated with a team to develop an **enterprise-grade travel platform** combining flight tracking with social networking, successfully tested with **10,000+ users**
- Engineered responsive React frontend delivering **95+ Lighthouse performance scores** and **sub-200KB bundle sizes**
- Integrated **GraphQL data layer** with Apollo Client for efficient API communication and real-time synchronization
- Constructed **cross-platform PWA** with offline capabilities and **98% accurate OCR boarding pass scanning**
- Employed modern DevOps practices including **Docker containerization** and **CI/CD pipelines**

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

- Engineered a full-stack medication reminder platform tested with **1,000+ users**, featuring intelligent prescription tracking, AI-powered scheduling, and cross-platform synchronization
- Built scalable RESTful API with Express.js handling complex medication CRUD operations, automated reminder generation, and JWT-based authentication with **99.9% uptime** and **sub-100ms response times**
- Implemented Pinecone vector database with OpenAI embeddings for semantic duplicate detection, achieving **95% accuracy** in identifying potential medication conflicts and preventing dangerous prescription overlaps
- Orchestrated sophisticated Docker Compose architecture deploying **6 containerized services** (MongoDB, Redis cache, Nginx reverse proxy), demonstrating advanced DevOps practices and infrastructure management