

# 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 Bioengineering

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, Dart, HTML, CSS

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

**Tools:** Docker, Git/GitHub, Amazon Web Services, Firebase, GraphQL, Postman, Vite, Vercel, Figma, Arduino

**Libraries:** Apollo Client, MongoDB, MySQL, Redis, Pinecone, TensorFlow, Axios, Unity

**Certification:** AWS Certified Cloud Practitioner – Issued Oct 2025

## EXPERIENCE

**Mobile Software Developer Intern**

November 2025 - Present

Opalink

Orlando, FL

- Designed and shipped production React Native features used by **3,400+ users across 80+ restaurants**
- Collaborated on frontend components integrated with live REST APIs alongside backend and design teams
- Managed tasks, resolved bugs, and shipped updates using Jira within an Agile sprint cycle

**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 certifications and 15+ protocol trials to ensure ethical, safe human-subjects research

## 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**
- 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
- 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**

**IntoMyHeart** | Arduino, C++, Three.js, Node.js, WebSocket, TWEEN.js, MAX30102

November 2025

- Engineered real-time Arduino pulse monitor with WebSocket streaming with **<50 ms latency and 115200 baud**
- Synced live pulse signals to a responsive 3D heart model with Three.js and TWEEN.js animations
- Constructed dual-display UI: I2C OLED feedback + web dashboard with real-time ECG waveform visualization
- Applied adaptive filtering (moving average, dynamic threshold, BPM smoothing) to reach **95%+ signal accuracy**