

Kaden Luangsouphom

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EDUCATION

University of Florida, College of Engineering

B.S. in Computer Science, Minor in Electrical Engineering, Certificate in Project Management

Exp. May 2027

Gainesville, FL

EXPERIENCE

Software Engineer Intern

Leidos

May 2025 – Present

St. Petersburg, FL

- Delivered a **Bootstrap/Node.js** full-stack app with a session-scoped service registry enforcing singleton instances
- Engineered a **conflict resolution algorithm** supporting **1,000+** consecutive insertions at runtime by detecting overlapping time windows, computing free-time segments, and proposing valid alternatives
- Enabled **16+** MB cross-machine file transfers via bidirectional SFTP, persisting across **10+** MongoDB collections
- Integrated a **100+** case Bash harness into a CI/CD pipeline to automate release checks and smoke tests
- Reduced manual debugging across **50+** endpoints by building an ID-correlated logger for **Dockerized** services

Software Engineer Intern

SOAR Dynamics (Startup)

August 2025 – Present

Gainesville, FL

- Owned software/electrical implementation for an **autonomous drone program**, coordinating with **20+** engineers
- Architected the full flight stack (**Pixhawk 6C + Raspberry Pi 5**), defining sensor and data-link interfaces plus end-to-end data flow for **FLIR** thermal, **LiDAR**, and CV payloads
- Defined **30+** Jira engineering tasks and acceptance criteria to drive flight-stack integration and release readiness

Backend Engineer Intern

Florida Community Innovation

Dec 2024 – May 2025

Gainesville, FL

- Developed backend services for the Florida Resource Map, standardizing **40+** endpoints to enable reliable resource discovery across food, housing, healthcare, and education for case managers and communities in need
- Presented at the **2025 UMSI Expo**, pitching to **200+** prospects across clients, investors, and intern candidates
- Closed **20+** PRs to clean up legacy code, optimize MongoDB queries, and strengthen edge-case validation
- Boosted unit testing efficiency by **20%** by authoring an internal Postman guide for standardizing documentation

Software Engineer Intern

UF Open Source

Aug 2024 – Jan 2025

Gainesville, FL

- Converted **10+** Figma mockups into reusable React components, implementing UI aligned with specs
- Used Git-based workflows to coordinate changes across **15+** contributors and maintain clean integration

PROJECTS

LockedIn - AI Chrome Extension | *Node.js, MongoDB, Gemini API*

Apr 2025

- Engineered an AI-powered productivity tool that classifies and blocks unproductive sites in real time
- Reduced manual user input by **90%** through integrating Gemini API to automate site filtering decisions
- Tracked and analyzed tab events via MongoDB to generate **personalized productivity** reports and trend insights

Gaia - Scientific Weather App | *JavaScript, Bootstrap, Open-Meteo API*

Jan 2025

- Launched an interactive weather dashboard for any location, surfacing real-time conditions and forecast insights
- Powered **24/7 trends** by aggregating Open-Meteo API data into **12** live signals and **15+** forward-looking metrics
- Implemented location search returning up to **8** matches per query and saving up to **10** favorites via local storage

Northeast Florida Map | *Python, Flask, React, OSMnx, NetworkX, OpenStreetMap API*

Dec 2024

- Developed a full-stack web application utilizing Flask and React to visualize shortest paths in road networks
- Engineered **Dijkstra's** and **A*** algorithms from scratch to compute paths and deliver detailed performance metrics
- Leveraged OSMnx and NetworkX to process **100,000+** road network datapoints for Northeast Florida

QUALIFICATIONS

Languages: Python, C++, JavaScript, Java, Bash, SQL, HTML, CSS

Technologies: Git, Atlassian, Docker, VirtualBox, VMware, Vitis, Vivado, LTspice, WaveForms

Interests: Sigma Phi Epsilon (SigEp), Nutrition & Macros, Southeast Asia Travel, Powerlifting, Philosophy