Kaden Luangsouphom

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EDUCATION

University of Florida, College of Engineering   **Exp. May 2027**
B.S. in Computer Science, Minor in Electrical Engineering, Certificate in Project Management   *Gainesville, FL*

EXPERIENCE

Software Engineer Intern   May 2025 – Present
Leidos   *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   August 2025 – Present
SOAR Dynamics (Startup)   *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**), partitioning real-time flight control vs. autonomy compute while defining 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   Dec 2024 – May 2025
Florida Community Innovation   *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   Aug 2024 – Jan 2025
UF Open Source   *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