

Kaden Luangsouphom

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EDUCATION

University of Florida, College of Engineering

Gainesville, FL

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

EXPERIENCE

Software Engineer Intern

May 2025 – Present

Leidos

St. Petersburg, FL

- Shipped two **Node.js** apps across **60+** merged PRs, cutting manual scheduling for test engineers from hours to minutes and enabling remote hardware configuration via nginx, OAuth2 proxy, and Keycloak microservices
- 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 **SHA256**-verified file transfers exceeding MongoDB's **16 MB** limit via bidirectional SFTP and GridFS
- Automated release checks for a production **Node.js** migration with a **100+** case Bash harness in GitLab CI/CD
- Reduced manual debugging across **50+** endpoints by building an ID-correlated logger for **Dockerized** services

Software Engineer Intern

Aug 2025 – Present

SOAR Dynamics (Startup)

Gainesville, FL

- Led software and electrical integration for an **autonomous drone program**, coordinating with **20+** engineers
- Architected a flight stack (**Pixhawk 6C** + **Raspberry Pi 5**), separating real-time control from autonomy compute
- Designed a multi-rail power distribution system enabling stable, regulated power delivery across **10+** components
- 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

- Enabled **multi-partner verification** on the Florida Resource Map by designing a pending-to-approved workflow, connecting social workers and case managers to **4,000+** food, housing, and healthcare resources
- Migrated the production **MongoDB** schema to partner-verification arrays with zero downtime and legacy support
- Accelerated developer onboarding by authoring FCI's **Postman** documentation standard for **80+** REST endpoints
- Pitched the platform at the 2025 UMSI Expo to **200+** prospective clients, investors, and intern candidates

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

Gainesville Atlas | *Python, Pyodide, WebAssembly, JavaScript, Leaflet, OSMnx, OpenStreetMap API*

Jul 2026

- Built a visualizer racing hand-written **Dijkstra** and **A*** over **12,500+** road segments in-browser via Pyodide
- Benchmarked **A*** against Dijkstra across a **5,000+** node OpenStreetMap graph, cutting explored nodes by **76%**
- Enforced a **17-case** pytest quality gate on every push and pull request via a GitHub Actions **CI/CD** pipeline

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

QUALIFICATIONS

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

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

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