

# WESLEY CHOU

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## EDUCATION

### University of Central Florida

Bachelor of Science in Computer Science | Dean's List

Orlando, FL

Aug 2023 – May 2026

## PROFESSIONAL EXPERIENCE

### Goldman Sachs

May 2025 – Aug 2025

Software Engineer Intern

Dallas, TX

- Built a full-stack React dashboard powered by Spring Boot APIs and MongoDB, delivering real-time analytics for 2 global divisions, saving 150+ hours of manual reporting annually.
- Developed REST APIs and aggregation pipelines handling 1M+ financial records, reducing query latency by 75% and supporting internal data workflows.
- Won 1st place in firmwide hackathon building an AI-driven ticket routing service using LangChain RAG, cutting support response times by 60%.
- Implemented 10+ end-to-end features with 95%+ unit and integration test coverage (JUnit, Jest), incorporating internal feedback to improve usability.

### Kyrin Labs LLC

Dec 2025 – Present

Full-Stack Product Engineer

Orlando, FL

- Designed and launched a React/TypeScript learning platform with Supabase and MongoDB, including CI/CD pipelines, live authentication, and secure role-based access.
- Architected scalable SQL and NoSQL schemas and implemented serverless RPC endpoints, reducing backend latency for full-stack operations.
- Delivered features to 30+ beta users, generating \$9K revenue and validating platform usability.

### Lockheed Martin

Jan 2025 – May 2025

AI Logistics Product Intern

Orlando, FL

- Prototyped automated document ingestion system used by 50+ engineers, cutting manual entry by 80%.
- Presented AI product roadmaps to leadership, securing funding for platform scaling across multiple teams.

### UCF College of Optics and Photonics

Aug 2025 – Present

Undergraduate Research Assistant - Augmented Reality

Orlando, FL

- Built a real-time 3D gaze tracking pipeline with 478-point landmarks and adaptive filtering, processing high-throughput eye/head data for AR applications.
- Optimized C++ signal-processing modules and inference pipelines for deterministic, sub-10ms gaze\_target events, ensuring reliable real-time performance.

## PROJECTS

### Emergent | FastAPI, Next.js, React, Google Gemini, Google ADK

- Built multi-agent AI crisis simulation platform with FastAPI backend and Next.js/React frontend, orchestrating 50 persona agents for dynamic emergency scenarios.
- Won 1st place at KnightHacks 2025 and 2nd place in Google's Autonomous Agent Challenge.

### SoundHaus | React, FastAPI, Supabase, Docker, Electron

- Designed full-stack music version control platform with React/Electron frontend and FastAPI backend, conducting 20+ user interviews, pitching to executives, and being accepted into UCF Startup Incubator.
- Implemented backend audio versioning with Dockerized Gitea and Supabase, enabling reliable storage and retrieval of large media files.

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, TypeScript, JavaScript, Bash, SQL

**Frameworks & Libraries:** React, Next.js, Electron, FastAPI, Spring Boot, Node.js, LangChain

**Databases & Storage:** PostgreSQL, MongoDB, Supabase, Redis, S3

**Tools & Infrastructure:** Docker, Kubernetes, Git, CI/CD pipelines, Vector Search (pgvector)