Wesley Chou

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EDUCATION

University of Central Florida — **Orlando, FL**
B.S in Computer Science | GPA: 3.57/4.0 — Expected May 2026
Relevant Courses: Object-Oriented Software Development, Operating Systems, Machine Learning, Robot Vision

TECHNICAL SKILLS

Languages: Java, Python, C++, TypeScript, JavaScript
Frameworks/Databases: Spring Boot, React, PostgreSQL, MongoDB
Tools: Git/GitHub, VSCode, Intellij, Linux, Docker, Kubernetes, Figma

EXPERIENCE

UCF College of Optics and Photonics — **Orlando, FL**
AR Research Assistant — April 2025 - Present
- Developed a Python-based eye-tracking program using machine learning to optimize gaze detection and reduce power consumption.
- Translate pupil-detection algorithms to cross-functional hardware and optics teams, influencing software design and hardware testing for ML-based solutions.

Goldman Sachs — **Dallas, TX**
Software Engineer Intern — May 2025 - Aug 2025
- Launched a real-time dashboard using MongoDB, Java Spring Boot, React to visualize investment trends and team KPIs, saving over 150 hours of labor annually for 2 global business divisions by enabling data-informed business strategy.
- Developed data aggregation pipelines processing millions of transactions in sub-second time, generating 6 critical metrics for investment portfolio analysis and system performance monitoring.
- Owned end-to-end delivery of 10 feature releases in Agile sprints with technical code reviews and weekly stakeholder communication, maintaining 100% coverage and incorporating user feedback from User Acceptance Testing.
- Won first place in a Goldman Sachs AI hackathon by implementing an RAG model to automate support ticket processes.

Lockheed Martin — **Orlando, FL**
AI Logistics Product Intern — Jan 2025 - May 2025
- Implemented an RAG prototype using Python, LangChain, and Streamlit that reduced manual data entry by 80% and accelerated risk analysis for one reliability engineering team.
- Developed technical roadmaps and pitched 3 AI product concepts to senior leadership, securing executive funding to scale one RAG system to 2 reliability engineering divisions.
- Completed 8-week ML curriculum utilizing Pandas, Numpy, and Scikit-learn, applying knowledge to evaluate the technical feasibility of enterprise AI initiatives.

UCF Student Academic Success Center — **Orlando, FL**
Tutor — Sept 2024 - Dec 2024
- Tutored 200+ students in C and Java by translating complex concepts into digestible content, improving average test scores by 50%.

PROJECTS

Sound Haus | Jira — Aug 2025 - Present
- Architected a full-stack version control and marketplace platform for music producers, translating over 20 user stories into a detailed backend implementation and product design.
- Led weekly sprints and scrum meetings to manage a 5-person team, ensuring project deliverables and enhancing team collaboration.
- Pitched the platform to 3 entrepreneurs, validating its technical requirements and business viability.

FitLink App | MongoDB, Express.js, React, Node.js, OpenAI, Flutter — Aug 2024 - May 2025
- Led 6-person team to build AI-powered client management platform for personal trainers, delivering web and mobile apps following RESTful framework that reduced administrative tasks through automated scheduling and AI-tailored workout programs.
- Managed 4-person business strategy team, conducting 50 user interviews to define pricing model and go-to-market roadmap.
- Delivered 12 weekly pitches to entrepreneurs and classmates, iterating on feedback before presenting final pitch to venture capitalists.

LEADERSHIP

Society of Asian Scientists and Engineers | Professional Development Chair — Aug 2025 - Present
- Organized 10+ networking events with industry leaders and professional development workshops for 200+ members.
- Mentored 10 underclassman students, providing one-on-one guidance to develop personalized tech career roadmaps and enhance their career readiness skills, including resume building, personal projects help, and mock interviews.