David Chung

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EDUCATION

Carnegie Mellon University   Pittsburgh, PA
B.S. in Information Systems and Computer Science   *Graduation: May 2027*

EXPERIENCE

Amazon   May 2025 – Aug 2025
Software Engineer Intern   *Seattle, WA*
- Deployed a scalable OpenSearch data warehouse indexing 2B+ payment documents across 3 global regions
- Integrated SQL, DSL, and NLP queries, reduced customer-impacting resolution time from 4 days to 10 minutes
- Implemented 12 zero-ETL ingestion pipelines enabling real-time ingestion of Apple Pay and Google Pay data

ValueMate (YC X25)   Sep 2025 – Nov 2025
AI Software Engineer Intern   *Pittsburgh, PA*
- Developed iOS app reducing appraisal turnarounds by 80%, enabling appraisers to complete 5X more appraisals
- Shipped core iOS floor plan editor with Swift, built smart PDF editor with AI and BAML integrations
- Served 4 leading firms as 5-person team

Carnegie Mellon University TEEL Labs   Sep 2025 – Dec 2025
LLM Research Assistant   *Pittsburgh, PA*
- Research funded by CMU Accenture Center of Excellence for AI
- Engineered multi-stage LLM orchestration pipeline with vector embeddings and RAG for automated evaluation
- Deployed system analyzing 5,000+ student submissions for learning objective alignment and mastery prediction

PROJECTS

Haven — AI Lead | Claude API, LiveKit, OpenAI Whisper, Next.js, FastAPI, Supabase   Oct 2025
- Won Y Combinator (1st), Fetch.ai (1st), and LiveKit Best Startup against 3000+ competitors at [CalHacks 2025](#)
- Multi-agent system using CV and vital monitoring to detect patient anomalies and show alerts on 3D hospital map
- Built FPPG pipeline with OpenCV for heart rate extraction, feeding real-time streams to Fetch.ai agent network coordinating with Claude chain-tool-calling for 3D map updates

Medicly — Full Stack Lead | FastAPI, Next.js, Supabase, MediaPipe   Sep 2025
- Grand Prize (1/250+ teams) at [HackCMU 2025](#) w/ sponsors from Anthropic, Citadel, Stripe, Jane Street & HRT
- Converts raw smartphone video into clinician-ready findings with 3D mesh visualization & exercise suggestions
- Built a MediaPipe/OpenCV pose pipeline with keyframe splicing and joint-angle time-series data into a Claude feedback analysis loop

Yumi — iOS + AI Lead | SwiftUI, Hugging Face, Gemini, FastAPI, Supabase   Oct 2025
- Awarded 3rd Place (3/150+ teams) at [HackHarvard 2025](#) for a social network for food utilizing multiple AI agents
- Built a hybrid recommendation system using Hugging Face Sentence Transformers for food similarity embeddings and Gemini function calling for semantic restaurant retrieval
- Architected SwiftUI iOS app and built an image pipeline with CV for food property detection

LEADERSHIP

CSYA 501(c)(3)   Feb 2023 - Aug 2025
Founder & Director   *Riverside, CA*
- Led a 35+ member team and raised $280,000+ with sponsorships from Wolfram Alpha & Brilliant
- Served 1k+ students from 25+ countries, collaborated with 20+ professionals from Google, Princeton, Harvard

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Swift, Kotlin, Java, C, Assembly, HTML, CSS, SQL
Frameworks & Libraries: React, Next.js, Node.js, FastAPI, PyTorch, OpenCV, SwiftUI, ARKit, MediaPipe, Tailwind
Developer Tools: AWS, Supabase, Railway, Vercel, Git, VS Code, Cursor, Claude Code