

Oak Soe Khant

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EDUCATION

DeAnza Community College | Cupertino, CA

Expected **March 2027**

A.S.-T. in Computer Science for Transfer • Honors Student • GPA: 4.0/4.0

Relevant coursework: Introductory C++ (CIS 22A), Intermediate C++ (CIS 22B), Data Structures & Algorithms (CIS 22C), Discrete Mathematics (Math 22), Calculus I–IV(1A,1B,1C,1D)

TECHNICAL SKILLS

Languages: C++, Python, Java, JavaScript, HTML, CSS

Frameworks & Libraries: Flask, FastAPI, Jinja2, OpenCV, NumPy, Pandas, Scikit-Learn, YOLOv8, STL

Infrastructure & Tools: Raspberry Pi, Redis, Browserbase, Sentry, Claude API, Git, GitHub, VS Code, Uvicorn, g++, Clang

PROJECTS

VisionAssist — Wearable Assistive Navigation Device • *Collaboration with Infineon* **Mar – Jun 2026**

- Co-developed a head-mounted obstacle-detection aid for visually impaired users with a 5-person team; built the Flask MJPEG live-feed pipeline and real-time text-to-speech alert system streaming a Raspberry Pi 5 / Arducam V3 camera feed (YOLOv8n, ~3–5 FPS on-device).
- Owned distance estimation: after extensive testing and consultation, determined that real-time ranging with the Infineon XENSIV 60 GHz radar (PSoC 6) was not feasible within the project window, then designed and implemented a monocular geometry-based estimator (YOLO bounding box + fixed mount height + known object-class heights) that shipped in the final demo to Infineon engineers.

Lookout — AI-Agent Event Discovery Service • *UC Berkeley AI Hackathon* **Jun 2026**

- Designed and directed a 5-agent pipeline (Scout → Fit Judge → Strategist → Drafter → Critic) that continuously crawls event sites (Devpost, Luma, Cerebral Valley) and surfaces only hackathons matching a user's natural-language query — an orchestrator agent first rewrites the user prompt into a structured query for downstream agents.
- Specified the full stack — Claude API for agent reasoning, Browserbase for site crawling, Redis as cross-iteration agent memory, and Sentry → Discord for live pipeline-failure alerts — and drove implementation in a 2-person team using Devin as the coding agent.

EXPERIENCE

De Anza College — *CIS Tutoring Assistant* (In-Person + Remote)

Apr 2026 – Present

- Provide weekly in-person and Zoom tutoring in C++ and data structures, clarifying concepts students find confusing and helping them connect ideas across topics.
- Break down complex material — recursion, pointers, proof techniques — into clear, step-by-step explanations tailored to each student's level of understanding.

Competitive Programming Club, De Anza College — *Vice President*

Sep 2025 – Present

- Help lead a student club focused on competitive programming (LeetCode, Codeforces); run weekly meetings and contribute to syllabus planning across data structures, algorithms, and contest strategy.
- Deliver lectures on assigned topics when covering for the lead technical officer.

Simplexity — *SAT Math Instructor* (Remote)

Aug – Nov 2025

- Designed and delivered structured SAT Math lessons emphasizing core concepts, efficient problem-solving, and timed test strategy.
- Provided personalized coaching by diagnosing student weaknesses and adjusting practice plans based on mock-assessment performance.