

Avneet Kaur

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EDUCATION

Lehigh University

Bethlehem, PA

B.S. Computer Science and Business | Minor in Entrepreneurship | GPA: 3.72

May 2028

- Honors: 3x Dean's List, Trustees' Scholarship, Marcon Fellowship, Williams Prize, Ruhr Fellowship
- Relevant Coursework: Data Structures & Algorithms, Systems Software, Software Engineering, Database Systems

EXPERIENCE

AI Engineer Intern

June 2026 – July 2026

Place Beyond Bytes, University of Duisburg-Essen

Essen, Germany

- Built pi-chat, a role-aware RAG chatbot on self-hosted Qwen3 (Python, FastAPI, vLLM, Qdrant) so founders query internal docs in natural language, cutting onboarding time from 12 to 4 hrs per founder
- Designed a suite of reusable Claude Skills for competitor research, customer discovery, MVP scoping, and fundraising, reducing founders' early product research cycles from 7 days to 3 (-57%)
- Migrated the n8n service from Docker Swarm to Kubernetes (RKE2), consolidating the team onto a single orchestration stack for easier and more consistent deployments

Software Engineering Research Assistant

June 2026 – Present

Prof. Joseph A. Vitriol, Lehigh Psychology Dept.

Remote

- Replaced 3 legacy codebases (2,000+ LOC) with a configurable JavaScript/jsPsych platform supporting 8 experimental variables, enabling researchers to launch new study conditions without code changes
- Caught and fixed a counterbalancing defect that could bias participant assignment; built automated validation and integrated Qualtrics and Inquisit workflows to support future data collection

Web Developer & PM Intern

June 2025 – July 2025

WatGen, Start-Up Chile

Santiago, Chile

- Built the front end for carbon credits marketplace; demoed it to Chile's Ministry of Energy for a grant proposal
- Built a monthly OPEX model estimating energy, labor, and maintenance costs to calculate cost per ton processed
- Evaluated tire pyrolysis feasibility by comparing 3 vendor quotes to guide a major equipment purchasing decision

PROJECTS

Founder | [Boba](#)

April 2026 – Present

- Developed an AI-powered iMessage news assistant delivering personalized daily digests and conversational follow-up using the Claude API; launched a public beta with 48 active users
- Built a FastAPI backend with persistent WebSocket connections, state reconciliation, and a multi-source news pipeline (RSS, web scraping, YouTube transcripts), leveraging Claude Code to ship the MVP in 2 weeks

Technical Product Lead | *Buzz, CSE 216 Software Engineering*

January 2026 – May 2026

- Led a 4-person team building Buzz, an internal social platform, using Agile/Scrum methodologies
- Developed REST API endpoints using Java, Spark Java, PostgreSQL; coordinated testing & delivery via Jira, Git

LEADERSHIP

Vice President | *Lehigh AI Club*

May 2025 – Present

- Lead a 600+ member AI community by organizing 20+ technical workshops, hackathons, and industry events
- Built relationships with alumni donors through direct outreach, securing funding for 2 hackathons
- Cold-pitched and secured corporate speakers from Anthropic, Deloitte, and Moody's, plus a Red Bull partnership

President | *LU Bhangra*

May 2025 – May 2026

- Led a 20-member cultural dance team through 4+ hours of weekly rehearsals and managed event logistics
- Promoted Punjabi culture on campus via 10 performances for 2,000+ attendees across major university events

SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, HTML/CSS, C, C++

Frameworks & Tools: React, Vue, FastAPI, Spark Java, PostgreSQL, Git, Docker, Kubernetes

AI & LLMs: RAG, LangChain, Qdrant, vLLM, MCP, Claude Code, Cursor, Codex, Figma

Certifications: CodePath Technical Interview Prep, PM Recruiting Bootcamp, CodePath Web Development