

# CHETAN VIG

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## Summary

Highly motivated Computer Science student at the University of Alberta seeking a Software Development Engineer Internship at Amazon. Proven ability to design, develop, and deploy innovative solutions using modern technologies, including AI/ML and cloud-native architectures. Passionate about building scalable and resilient systems that solve real-world problems and impact millions of users. Eager to contribute to a collaborative team environment and learn from experienced engineers.

## Experience

**MacEwan Residence - MacEwan University**  
*MacEwan Residence*

Edmonton, Alberta  
November 2024 – Present

- Provided excellent customer service to students and guests, efficiently handling check-ins, check-outs, and inquiries.
- Maintained organized records, managed mail and packages, and assisted with administrative tasks.
- Facilitated seamless guest and student experiences by efficiently addressing inquiries and coordinating check-ins and check-outs.

## Projects

**Clubmate AI - Ongoing**  
*Undergraduate Artificial Intelligence Society* [github.com/UndergraduateArtificialIntelligenceClub/Clubmate-AI](https://github.com/UndergraduateArtificialIntelligenceClub/Clubmate-AI)

September 2025 – Present

- **LLM Protocol Integration:** Developed a high-performance, Async Python service bridging an LLM via Model Context Protocol (MCP) to execute 17 standardized API tools for server automation, enhancing development productivity.
- **Security Validation:** Implemented strict Role-Based Access Control (RBAC) using Discord roles for tool permissions, and enforced data reliability across all inputs using Pydantic schema validation.
- **Quantified Impact:** Reduced club administrative burden by an estimated 80% (scheduling, moderation, outreach), freeing leadership time and measurably increasing member engagement.
- Utilized technologies including Python, MCP SDK, LLMs (OpenAI standard), Pydantic, and Async/Await.

## Education

**University of Alberta**  
*Bachelor of Science in Computer Science*

Edmonton, Alberta  
Expected Graduation: 2027

## Skills

**Programming Languages:** Python, C (C99), JavaScript/TypeScript, SQL  
**AI/ML & Data:** Machine learning, deep learning, LLMs, context engineering, RAG, PyTorch, Scikit-Learn, NumPy, Pandas, LangChain, LlamaIndex, data analysis visualization  
**Systems, Web & Tools:** React, REST APIs, PostgreSQL, Git, Linux CLI, Docker, Streamlit, PyTest, MCP / MCP SDK, AWS (learning), CI/CD principles

## Volunteer Experience

### Perplexity

*Campus Ambassador*

Edmonton, Alberta

September 2025 – Present

- Promoted Perplexity's Comet browser on campus through creative grassroots events and outreach.
- Collaborated with the growth team to boost awareness and signups, distributed branded materials, and gathered feedback.
- Developed marketing and communication skills in a fast-paced, tech-driven environment.