

# CHETAN VIG

Edmonton, Alberta, Canada

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## SUMMARY

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Highly motivated Computer Science student at the University of Alberta with a strong foundation in data structures, algorithms, and software development. Experienced in building AI-powered applications using Python and modern development tools. Seeking a Co-op Software Engineer position at Clio to contribute to the design, development, and deployment of high-quality software. Eager to apply strong communication and problem-solving skills in a collaborative, hybrid work environment.

## EDUCATION

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**University of Alberta**  
Edmonton, Alberta

2027

## EXPERIENCE

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**MacEwan Residence**  
*MacEwan University*

November 2024 – Present  
Edmonton, Alberta

- Provided excellent customer service to students and guests, handling inquiries and facilitating check-ins/check-outs.
- Maintained organized records and assisted with administrative tasks.

## PROJECTS

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**Clubmate AI**

September 2025 – Present

*Undergraduate Artificial Intelligence Society*

- **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.
- **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.
- *Technologies: Python, MCP SDK, LLMs (OpenAI standard), Pydantic, Async/Await*

## SKILLS

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**Programming Languages:** Python, C (C99), JavaScript/TypeScript, SQL

**Data Structures & Algorithms:** Proficient in fundamental data structures and algorithms.

**AI/ML & Data:** Machine learning deep learning, LLMs context engineering, RAG, PyTorch, Scikit-Learn, NumPy, Pandas

**Web & Tools:** React, REST APIs, PostgreSQL, Git, Linux CLI, Docker, Streamlit, PyTest  
**Other:** OOP, Spec-driven development, Data Analysis Visualization, Critical Thinking,  
Communication Skills.

## INVOLVEMENT

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### Perplexity

September 2025 – Present

Edmonton, Alberta

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