

# Chetan Vig

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## Summary

Highly motivated Computer Science student at the University of Alberta with experience in developing AI-powered applications and a strong focus on generative AI solutions. Passionate about leveraging modern development tools and cloud technologies, particularly within the Microsoft Azure ecosystem, to build practical, scalable, and reliable applications. Seeking a Software Developer - Applied AI internship opportunity at MNP to contribute to innovative projects and further develop expertise in AI/ML and cloud-native development.

## Experience

- **Clubmate AI - Undergraduate Artificial Intelligence Society** September 2025 - Present
  - *Developer*
  - Developed a high-performance, Async Python service bridging an LLM via Model Context Protocol (MCP) to execute 17 standardized API tools for server automation, significantly reducing administrative burden.
  - Implemented strict Role-Based Access Control (RBAC) using Discord roles for tool permissions, and enforced data reliability across all inputs using Pydantic schema validation, ensuring secure and reliable AI-driven automation.
  - **Technologies:** Python, MCP SDK, LLMs (OpenAI standard), Pydantic, Async/Await
- **Perplexity** September 2025 - Present
  - *Campus Involvement*
  - Promoted Perplexity's Comet browser on campus through creative grassroots events and outreach, boosting awareness and signups.
- **MacEwan Residence - MacEwan University** November 2024 - Present
  - *Residence Services*
  - Provided excellent customer service for students and guests, handling check-ins, check-outs, and inquiries.
  - Maintained organized records, managed mail and packages, and assisted with administrative tasks.

## Education

- **University of Alberta** Expected Graduation: 2027
  - Bachelor of Science in Computer Science

## Skills

- **AI / ML Data:** Machine learning, deep learning, LLMs context engineering, RAG, PyTorch, Scikit-Learn, NumPy, Pandas, Seaborn, LangChain, LlamaIndex, Pinecone, Hugging Face, SpaCy, data analysis, visualization, feature engineering, hypothesis testing
- **Programming CS:** Python, C (C99), JavaScript/TypeScript, SQL, data structures, algorithms, OOP, spec-driven development
- **Cloud DevOps:** Microsoft Azure, Azure AI Studio, Azure OpenAI Services, Azure AI Search (learning), Docker, Git, CI/CD Pipelines (Azure DevOps, GitHub Actions - learning), Terraform (learning)
- **Systems, Web Tools:** React, REST APIs, PostgreSQL, Linux CLI, Streamlit, PyTest, MCP / MCP SDK