

# Ethan Cratchley

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## Education

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### Simon Fraser University – Beedie School of Business

Sep 2022 – Apr 2026

*Bachelor of Business Administration and Computer Science (Joint Major)*

- **Coursework:** *Computer Science 1&2, Calculus, Linear Algebra, Discrete Mathematics, Business Computing, Business Information Systems, Business Statistics, Managerial Accounting, Financial Accounting, Microeconomics, Macroeconomics*

## Experience

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### Product Development

Dec 2024 – Present

*Autonommi*

*Remote*

- Developed and fine-tuned large language models (LLMs) to optimize natural language understanding and generate high-quality text outputs.
- Implemented Retrieval Augmented Generation models (RAGs), improving model response and robustness.
- Designed and deployed Python-based pipelines for data preprocessing, model training, and evaluation, streamlining workflows and reducing processing time.

### Project Lead

Oct 2024 – Present

*SFU OS Development Club*

*Vancouver, BC*

- Managed a team, overseeing the hiring and interview process, and coordinating project planning.
- Led the development of [FinancialFastFeed.com](https://FinancialFastFeed.com) using Python, JavaScript, MongoDB, Render, and more.
- Directed product development, ensuring timely delivery and high quality standards.
- Marketed the platform, successfully increasing user base and engagement.

### Senior Research Analyst

Sep 2024 – Present

*SFU Investment Club*

*Vancouver, BC*

- Conducted in-depth equity research on diverse financial instruments to inform investment strategies.
- Participated in stock pitch competitions, presenting analysis to professional judges.
- Collaborated on case studies and investment challenges to enhance portfolio management, presentation, and research skills.

### Operations Intern

Apr 2024 – Aug 2024

*Wilson Beck Insurance*

*Vancouver, BC*

- Utilized Applied Epic software to work with clients and co-workers to aid in the insurance process.
- Answered phone calls from clients using Mitel and communicated with them to give them the support needed.
- Researched and helped in building multiple internal company procedures including innovative AI workflows.
- Built projects in Python to improve internal company operations.

## Projects

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### Financial Fast Feed | *Python, JavaScript, CSS, MongoDB, Git, React, Render*

Dec 2023 – Present

- Fetch financial news RSS feeds from 17 sources with Python and summarize them with Open AI API.
- Store complete data and summarization of RSS feeds to MongoDB at a rate of up to 136 times per day automatically.
- Hosted the website using Render and Next with frontend completed using React, JavaScript, CSS.
- Use Crontab to run the program every 3 hours for the most up to date financial news.

### Algorithmic Trading Development | *Excel, Python, Google Cloud*

Nov 2023 – Present

- Modelled over 20 different public company's SEC filings of both financial quarterly and annual reports
- Used Excel to do company accounting and financial math calculations as well as Excel functions for efficiency.
- Utilized Python to back test and do walk through testing analysis on different algorithmic trading strategies.
- Connected algo trading strategies to Google Cloud to be more efficient by always running and testing strategies.

## Skills, Honors, Certifications, Organizations, and Hobbies

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**Languages:** Python, C, C++, SQL, HTML, JavaScript, CSS

**Frameworks:** MongoDB, React, Next, Node, Express, Flask

**Tools:** Git, AWS, Vercel, Access, Excel, Heroku, Google Cloud, Linux, Bloomberg Terminal, S&P Capital IQ

**Honors:** WinterHacks 2024 Best Pitch, CrackedDevs 2024 Best Educational Project, BMO Marathon Completion, Gruesome Twosome Half Marathon 7<sup>th</sup> Place

**Organizations:** SFU OS Development Club, SFU Investment Club, Enactus Capilano

**Hobbies:** Tri Sports & Fitness, Soccer, Chess, Tennis, Golf, Poker, History