

# Ian Paul

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## WORK EXPERIENCE

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### Senior Backend Software Engineer

Mar 2022 – Mar 2024

*EcoCart Sciences*

*Remote in Vancouver, BC*

- Led the architectural transformation from a monolithic application to a serverless microservice system, delivering a 40% reduction in median response time and 80% reduction in 95th percentile response time for the real-time emissions calculation engine, dramatically enhancing performance during high-traffic periods like Black Friday and Cyber Monday
- Refactored the Shopify-specific external API into a platform agnostic API to support any e-commerce partner, and successfully onboarded three new e-commerce platforms
- Developed the internal shipping emissions calculation API that determines carbon emissions by analyzing shipment characteristics including weight, volume, origin, destination, transportation modes, and specific vehicle model

### Software Engineer

May 2018 – Mar 2022

*Canalyst Financial Modeling Corporation*

*Vancouver, BC*

- Led the development of a web API that dynamically transformed 4000+ custom Excel files into client-specified formats, enabling on-demand and customized financial data retrieval for fundamental equity research teams
- Published a pandas-inspired Python SDK that enabled data science teams to conduct complex multi-company financial analysis, enabling advanced scenario modeling, risk assessment, and investment screening
- Developed a three-way diff and merge algorithm that reconciles updates between Canalyst's base excel models and customized client variations; automatically propagating client-specific modifications into new model versions while preserving the integrity of custom work during earnings updates

### Business Analyst (part-time)

Jan 2018 – Present

*Scorpion Capital Group*

*Vancouver, BC*

- Performed ad-hoc research on various industries and technologies to find viable investment opportunities
- Led the engagement with McMaster University's inventors and technology transfer office to licence patents, which were used to found FendX Technologies Inc. (FNDX.CN)

### Investment Analyst

May 2017 – Aug 2017

*Slate Asset Management Group*

*Toronto, ON*

- Involved in due diligence, Excel/Argus modelling, and preparing board presentation decks for over C\$350M of transactions for Slate Grocery REIT (SGR.UN-T) and Slate Office REIT (SOT.UN-T)

## EDUCATION

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### University of British Columbia

Sep 2014 – Apr 2018

*Bachelor of Commerce (Finance) with Honours, Sauder School of Business*

*Vancouver, BC*

- Recipient of the Peter Lee Scholarship in Finance and the International Learning Program Scholarship
- Awarded 1st place at the 2018 International Case Competition @ Maastricht, competing against 16 universities
- Held lectures for 200+ students as the Managerial Accounting Teaching Assistant from Jan 2017 – Apr 2017
- UBC Men's Rugby team member; nominated as UBC Totems' captain for the 2015 season

## TECHNICAL SKILLS

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**Languages:** Python, C#, JavaScript/TypeScript, Lua, SQL, Bash

**Frameworks:** Django, Chalice, ASP.NET Core, .NET Framework

**Database Technologies:** DynamoDB, PostgreSQL, Redshift, Rockset, Amazon Aurora, DuckDB, SQLite

**Developer Tools:** NeoVim, Git, Docker, AWS CDK, GitHub Actions, Jupyter Notebooks

## INTERESTS

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**Open source contributor;** active contributor to [Exo](#), a library to run your own AI cluster with everyday devices

**Avid traveler;** visited 51 countries and have played rugby in Canada, US, England, Scotland, and Germany

**Devoted runner;** marathon PR – 3:16:36; 10K PR – 39:51; one mile PR – 4:57