

Ian Paul

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WORK EXPERIENCE

Senior Backend Software Engineer

Mar 2022 – Mar 2024

EcoCart Sciences

Remote in Vancouver, BC

- Led the architectural transformation from a monolithic Django application to a serverless microservice system, delivering 40% reduction in median response time and 4x 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 3 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 3-way diff and merge algorithm that reconciles updates between Canalyst's base financial models and customized client variations, automatically propagating client-specific modifications into new model versions while preserving the integrity of custom work during earnings report 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

University of British Columbia

Sep 2014 – Apr 2018

Bachelor of Commerce (Finance), 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 to be the UBC Totems' captain for the 2015 season

TECHNICAL SKILLS

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: Git, Docker, NeoVim, AWS CDK, GitHub Actions, GitLab CI/CD

INTERESTS

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; 1 mile PR – 4:57