Hanz Po

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Education

University of Waterloo — Waterloo, ON
Bachelor of Computer Science — *Sept. 2024 – Apr. 2028*

Experience

Shopify — May. 2025 – Aug. 2025
Software Engineer Intern — *Toronto, ON*

- Increased in-store conversion and loyalty by integrating buyer profiles into point of sale, enabling personalized incentives, saving merchants **52 hours/week**, and reducing checkout friction for **30% of customers**
- Developed and maintained scalable backend services using **Ruby on Rails, GraphQL, and gRPC**, enhancing application performance and supporting seamless integration with Shopify's platform
- Contributed to user live lookup feature on a cross-platform **React Native** customer view app for Android/iOS, enabling faster checkout flows for repeat customers and a consistent retail experience across mobile devices

Cohere — Sept. 2024 – Present
Senior Data Quality Specialist (Code) — *Toronto, ON*

- Improved coding abilities of large language models including **Command A**, helping achieve **86.2% on the MBPP+** and **92.6% on the RepoQA** benchmarks by providing reinforcement learning from human feedback
- Recommended optimizations and provided feedback for 275 coding tasks in Python, JavaScript, C, SQL, and C++

Projects

Albumify - Automated album covers for Spotify playlists — *Python, JavaScript, React, SQL, CockroachDB, FastAPI*

- Created the user interface and frontend logic for Albumify, a web application aimed at automatic album cover generation for Spotify playlists, using **React, JavaScript, and Chakra UI**, including **Spotify API** integration
- Designed and implemented a highly scalable backend using **CockroachDB** (PostgreSQL-based), enabling distributed data processing and resilience, coordinating with a cross-functional team and utilizing **Git** and **Figma**

Exploring the adoption of clean energy across the world — *Python, Pandas, Scikit-learn, Matplotlib*

- Built regression models to quantify the relationship between economic factors such as GDP, Human Development Index (HDI) against how much of a country's energy comes from emission-free and renewable sources
- Leveraged **Pandas** to import and parse large datasets, observed patterns with **Scikit-learn's** regression functions, then visualized interesting findings through **Matplotlib & GeoPandas** (world maps, scatter plots, line graphs)

GitGest - Repository commit history summarization — *Python, JavaScript, React, Flask, GitHub API, Cohere API*

- Built a tool that provides developers with commit history summaries using **Flask**, including **Cohere API** and **GitHub API** integration with **OAuth** user authentication
- Worked with designers and frontend developers to transform **Figma** designs into a functional and user-friendly web application, using tools such as **Git** and **GitHub**

Intellimailr - AI powered cold emailing platform (MetHacks award winner) — *Python, Bootstrap, Flask, Cohere API*

- Developed Intellimailr, a Flask-based application that automates personalized cold emails for users seeking potential clients and customers
- Implemented web scraping using Beautiful Soup to gather contact information, enhancing connectivity between user and their target audience

Extracurriculars

Wat Street — Nov. 2024 – Present
Quantitative Developer — *Waterloo, ON*

- Utilized PyTorch to reach an accuracy level of **96.8%** for neural networks in image classification tasks
- Employed SciPy to create an implied volatility algorithm using the Newton-Raphson method
- Developing Monte-Carlo simulation based method to predict the future prices of European options

Skills

Programming Languages: Python, TypeScript, Ruby, SQL, Java, C#, C++, C, Scheme (Lisp), Haskell, Bash
Technologies: Rails, React, Flask, React Native, PyTorch, Pandas, NumPy, Scikit-learn, GraphQL, gRPC, Tailwind
Tools: Git, Claude Code, Cursor, Node, Jupyter Notebook, Unity Engine