

# WILSON HSU

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## Work Experience

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### Nasdaq Private Market

Mar. 2023 — Present

*Software Engineer II, Core API*

*Remote, North America*

- Led and integrated distributed ledger service with the existing Core monolithic API, so institutional clients can connect with NPM while keeping all private data on-prem. Completed and presented the MVP internally within 3 months.
- Optimized and redesigned DACTYL's data models to improve data integrity and refactored all FactoryBot for test writing. Improved list endpoints performance by 10x in the process by profiling SQL queries and indices executed.
- Ownership for majority of the DevOp work within the team. CI/CD pipeline, dockerized the service, Airflow data ingestion, automated routine database snapshot to S3 bucket, spearheaded the setup for the distributed ledger project.

### Coinbase

May. 2022 — Jan. 2023

*Software Engineer, Coinbase Cloud*

*Remote, North America*

- Designed and implemented new features on services that are responsible for all customer Kubernetes resource life cycle.
- Enhanced the Reaper Kubernetes CronJobs by upgrading resource protection logic, returns more precise and informative output message. Repaired the suspended CronJobs which estimated to save Coinbase Cloud \$1M/year.
- Part of the tiger team to build an alert triggered auto-action service, which would save each dev team 20-40 hours per week from dealing with common incidents that can be resolved with a predefined Temporal workflow.

### Environment and Climate Change Canada

Aug. 2020 — Aug. 2021

*Web Application Developer, Business e-Solutions*

*North York, Ontario*

- Involved in design discussions related to ECCC's transition to cloud, built the POC app to test feasibility.
- Worked in all phases of the SDLC for our department-wide project that organizes 150+ web applications in ECCC.
- Developed and maintained several MVC applications that are responsible for regulating and enforcing the 4 major effluent regulations in Canada.

## Education

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### University of Toronto

Sep. 2017 – Dec. 2021

*Honour Bachelor of Science*

*St. George Campus*

- Specialist in Computer Science and Minor in Mathematics
- Dean's list scholar from 2017 - 2021
- CGPA: 3.85/4.00

### ROC Student Association at UofT

Vice-President of Operations

- Recruited and lead a team of 8 to engage in meetings, conversations with potential sponsors of the student association.
- Evaluated and managed all cash flows for our student association of over 150 active members.

## Projects

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### Inforum Marketing

Dec. 2021

- A React/Node.js promotional content marketplace that specifically target the Millennial/Gen-Z generation.
- Planned out the product roadmap and requirements, then designed and built all database schemas, backend endpoints to meet all use cases.
- Implemented Web-scraper with Facebook Login, JWT-Auth, CI/CD pipeline, Unit testing, Exception logging.

### EtherRide

Jan. 2019

- A React car rental web app that won the Best Aragon App award at the UofTHacksVI out of 100+ participating teams.
- Used AragonAPI to create and store Smart contracts on the Ethereum Blockchain.
- Integrated SmartCar API to remotely lock/unlock smart vehicles once transactions are verified on the blockchain.

## Technical Skills

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**Languages:** Ruby, Golang, Python, Javascript, SQL, C#, C, HTML, CSS, Haskell, DAML

**Technologies/Frameworks:** AWS, Kubernetes, Docker, Airflow, Temporal, Prometheus, Datadog, React/Node.js, MongoDB, PostgreSQL, Redis, Flask, Entity Framework, Postman, Selenium and Love to learn more!