# WILSON HSU

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## Work Experience

**Nasdaq Private Market**                                         **Mar. 2023 — Present**
*Software Engineer II, Core API*                                   *Remote, North America*

- Led and integrated a distributed ledger service with the existing monolithic API to support connecting institutional clients with NPM. Achieved the project milestone and presented the MVP within 3 months.
- Designed and implemented multiple service-wide refactors to address evolving challenges, such as ingesting holding data from various sources and constructing them into the Open Cap-table Format.
- Heavily involved in the team's DevOps tasks, including containerizing the application and automating routine database snapshots to, and restorations from, an S3 bucket, which reduced CI/CD pipeline execution time by nearly 60%.

**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

**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

**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

**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!