

Thomas Kou

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Languages Python, OCaml, JavaScript, TypeScript, PHP, Hack, C++, Java, Kotlin, C, SQL, Scala
Tools Node.js, React, GraphQL, Relay, Flask, AWS, Express.js, Spring Boot, Redux, Sass

EXPERIENCE

Citadel • *Equities Quantitative Research* New York, NY
Quantitative Developer Intern (Ongoing) Sept. 2022 – Dec. 2022

Jane Street New York, NY
Software Engineer Intern May. 2022 – Aug. 2022

- Created system that updates market data server with symbol/route mappings in real-time using **live order data**, enabling consumption of MiFID trade feeds in Europe.
- Developed an internal **code generation library** used by order lookup system to enumerate syntactic cases when parsing config tree files, enabling compiler to type-check semantic correctness.

Meta • *VR Developer Engagement* Menlo Park, CA
Software Engineer Intern Jan. 2022 – Apr. 2022

- Led development of **comfort tagging** feature on virtual reality storefront, increasing consumer awareness of VR comfort and addressing the #1 cause of VR store returns & refunds for 10M+ users.
- Designed an internal dashboard using **PHP**, **GraphQL**, and **React** for storefront employees to manage tag metadata.

NVIDIA • *GeForce NOW* Santa Clara, CA
Software Engineer Intern May 2021 – Aug. 2021

- Worked on **content management system** that shows targeted marketing content to 10M+ users on the GeForce NOW client.
- Built an internal **layout preview feature** using **Python**, **Flask**, and **React** for content managers to preview the GeForce NOW client storefront by overriding user targeting parameters, streamlining marketing workflows.

FISPAN • *ERP Development Team* Vancouver, BC
Software Developer Co-op Sept. 2020 – Dec. 2020

- Created integration for Intuit Quickbooks bookkeeping system within all-in-one **fintech software** using **Spring Boot** and **Kotlin** in a pilot to expand services to **100+ small businesses**.

Wish • *Product Payments* San Francisco, CA
Software Engineer Intern Jan. 2020 – Apr. 2020

- Developed **Python backend** APIs that use **PayPal** to collect owed cash payments from partnered Wish Blue satellite stores.
- Expanded pay-in-installments feature on **iOS/Android** to the UK, leading to a projected **\$6.3 million increase** in annual GMV.

Prizm Media Vancouver, BC
Junior Web Developer Intern Apr. 2019 – Aug. 2019

- Worked on a web & mobile prescription ordering service using a **Node/Express** backend and **React/Redux** frontends.

EDUCATION

University of Waterloo • **Bachelor of Computer Science, Honours, Co-op** Sept. 2018 – Apr. 2023

- Math & Engineering Dean's Honours Lists – GPA 3.96/4 (92%)
- Algorithms, Data Structures, Machine Learning, Distributed Data, Operating Systems, Database Management, Networks