Thomas Kou

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SKILLS

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

EXPERIENCE

NVIDIA • *GeForce NOW Chroma Team*   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.
- Optimized aggregation of user profiles by parallelizing requests to identity provider, reducing execution time by up to 90%.

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

- Worked in team that integrates ERP business management systems into all-in-one **fintech software** for banks and businesses.
- Created integration and automated syncing system for Intuit Quickbooks bookkeeping software using **Spring Boot** and **Kotlin** in a pilot to expand services to **100+ small businesses**.
- Developed an internal dashboard that monitors client connectivity and diagnoses errors for new Kotlin accounting core.

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

- Spearheaded development of **Python backend** APIs that use **PayPal** and **Braintree** to collect outstanding 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.
- Implemented dynamic shipping address serialization for **worldwide address verification**, reducing cancellations by **16.7%**.
- Built a **daily pipeline** that recovers gift card failures by tracing **MongoDB** documents to determine where card claims failed.

Prizm Media • *RxtoMe Development Team*   Vancouver, BC
Junior Web Developer Intern   *Apr. 2019 – Aug. 2019*

- Worked on a web & mobile prescription ordering service using **Node**, **Express**, **React**, and **Redux**.
- Introduced an **automated testing pipeline** for user flows using **LambdaTest** and **CircleCI**, saving 15+ man hours per week.

PROJECTS

Memo • *Social Flashcard Web-App*   *Jun. 2020 – Aug. 2020*

- Built the full-screen card view in an online flashcard-based studying application using **JavaScript** and **React**.
- Implemented liking/commenting on cards using **Node** endpoints and **MySQL** relations, adding a social layer to the application.

EDUCATION

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

- Math & Engineering Dean's Honours Lists – GPA 3.97/4 (91.5%)
- Algorithms, Data Structures, Operating Systems, Database Management, Object-Oriented, Statistics, Digital Computers