

Udy Ding

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EDUCATION

University of Waterloo

Sep 2020 - Apr 2025

Bachelor of Computer Science, Honors

- **GPA: 90%**, 4x Dean's Honors List
- **Relevant coursework:** Data Structures, Algorithms, Computer Networks, Security, AI, Operating Systems

WORK EXPERIENCE

X (Twitter)

New York, NY

Incoming Backend Engineer Intern

Jan 2024 - Apr 2024

- Building scalable and performant infrastructure for advertising analytics and auctioning. Working with distributed systems, streaming, and batch pipelines to drive revenue growth and optimize content personalization.

Newfront

San Francisco, CA

Software Engineer Intern

May 2023 - Aug 2023

- Led migration of policy changes from Snowflake and BigQuery warehouses to PostgreSQL using Hightouch reverse ETL, denormalizing historical data to expedite retrieval times and improve traceability.
- Launched end-to-end enhanced workflow to support revision control and invoicing on draft policy changes. Directed design meetings, bug bashes, and roadmap planning as the **main engineering point-of-contact** of a team of 8.
- Refactored gateway API layer for invoicing to offload tasks from Apache Airflow scheduler. Reduced latency for one-off billing tasks from **5 minutes to sub-500ms**.

Athelas

Mountain View, CA

Software Engineer Intern

Sep 2022 - Dec 2022

- Designed a lightweight platelet imaging classifier with **92% accuracy** utilizing the K-Nearest Neighbors (KNN) algorithm, alleviating peak-hour RAM usage from computer vision models by **11%**.
- Deployed a distributed Celery task and validation process to ingest onboarding metrics of **40000+** patients.
- Owned cross-team initiative to design and launch a care management platform and real-time notification system for patient vitals, saving **70%** of nurse consultation time.

Wish

Toronto, ON

Software Engineer Intern

Jan 2022 - Apr 2022

- Migrated high-traffic payment workflows to Go microservice, increasing network throughput by **10x** and leveraging concurrent message channels to mitigate performance bottlenecks.
- Built a scalable testing harness to dynamically mock environments and abstract integration test logic, reducing code redundancy by **93%** and saving engineers **4 hours/week**.
- Deployed a Grafana dashboard serving Prometheus error metrics to proactively monitor a critical user endpoint.

OpenText

Waterloo, ON

Full Stack Software Developer Intern

May 2021 - Aug 2021

- Implemented SRI hash-based validation to integrate major third-party CDNs into assets pipeline.
- Shipped localization of **12+** file management and authentication features with white-labelling compatibility.

PROJECTS

UW Blueprint: Developed a scalable booking platform and payments service for a non-profit serving **20000+** users. Current product manager for a recruitment platform, leading a team of **8** developers and designers.

Foodpix: Cloud image repository and image stream parser using AWS S3. Leveraged Google Vision labelling to integrate reverse image search with instance-level recognition.

SKILLS

Languages: Python, C++, Go, TypeScript, JavaScript, SQL, HTML, CSS

Frameworks: React, Next.js, Node.js, Express.js, NestJS, Flask

Tools: PostgreSQL, MongoDB, AWS, GCP, CircleCI, BigQuery, Grafana, Prometheus, Redis, Jest, Linux, Bash