

Andrew Peng

 andrewpeng.me

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EDUCATION

UNIVERSITY OF WATERLOO

2018 - 2023

COMPUTER ENGINEERING

- Received a Bachelor's of Applied Science, graduated with Honors with Distinction.

EXPERIENCE

BOOSTED.AI

2023 - Present / Toronto, ON

SOFTWARE DEVELOPER

- Designed and developed components for front-end and back-end applications used by Hedge Funds and Investment Advisors, empowering their trading workflow with Machine Learning backed algorithms.
- Planned, ticketed, and implemented various web features using **React**, alongside unit tests with **Jest**, resulting in faster rendering, **99%** code coverage, and overall higher user retention rates.
- Worked on various back-end features handling CRUD operations, using **Java**, **Spring**, **Protobuf**, and **SQS**.
- Planned and implemented modules for a queue based notification system, using **Python**, **SQS**, **SMS**, and **Jinja**.

ARCTIC WOLF NETWORKS

2021 - 2022 / Waterloo, ON

SOFTWARE DEVELOPER INTERN

- Developed features for Arctic Wolf's report generation service, alerting hundreds of large scale customers about foreign cybersecurity threats on their network each week.
- Used **Python**, **Django**, **SQS**, and **ElasticSearch** to handle large amounts of data for report generation. Increased code coverage by **10%**, and lowered legacy query times by **18%**.
- Wrote a cloud service cyler using **AWS Lambda** functions in **Go**, interfacing with **CloudFormation** and **ECS**. Lowered service memory leak related crashes by **70%**, increasing service uptime by **5%**.
- Platformized the product using **Ansible** and **Docker**. Created robust solutions for building Debian packages in containers, as well as for building and packaging other crucial shared services.

SKY VIEW SUITES

2020 / Toronto, ON

FULL STACK WEB DEVELOPER

- Designed and built an end-to-end administrative application with **NestJS** and microservices using **RabbitMQ**, handling live invoice generation and dynamic tax calculation for payments and invoices.
- Planned and implemented data driven web features using **TypeScript**, **Sequelize**, and **Postgres**.
- Resulted in a **20%** increase in back-end response time compared to the **Laravel** legacy application.

EHEALTH INC.

2020 / Santa Clara, CA

SOFTWARE ENGINEERING INTERN

- Worked on a service to help millions of US customers shop for affordable Health Insurance. Created new features with **TypeScript** and **GraphQL**, as well as unit tests with **Jest**.
- Migrated old Backbone JS components to **Vue**, resulting in a **19%** faster render times.
- Worked on several back-end features for customer profile authentication using **MongoDB**, and **Twilio**.

PROJECTS

MOFUMOFU

2020 - 2022

DATA COLLECTION AND TRACKING SERVICE FOR AN ONLINE MULTIPLAYER GAME

- Worked with a group of friends to reverse engineer a multiplayer game's network encryption scheme in order to create an unofficial **Python** API, supporting logging into user accounts without the game's official client.
- Created multiple automated bot user accounts to collect and track data for all registered players (**300k+**), by exploiting multiple unprotected querying endpoints on the game's live server.
- Statistics and leaderboards were served on a dockerized **Flask** web server, receiving **150k+** visitors each month.
- Used **Ghidra** for static binary analysis, and **mitmproxy** to capture network requests/responses.

SKILLS

LANGUAGES & TOOLS Python | Java | C/C++ | Go | SQL | TypeScript | Docker | Git | AWS | GCP

FRAMEWORKS & LIBRARIES React | Vue | Nest | Django | GraphQL | Spring | Flask | RabbitMQ | Kafka