

Enoch Tang

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EXPERIENCE

Numerator • Software Engineer

San Francisco, Apr 19 - Aug 19

- **Led development** for data calibration tool which applies adjustment weights to internal Insights Panel data; improved Insights projections by 20% for 1000+ retailers.
- Designed and developed **APIs** with **Python3**, **Django**, **RabbitMQ**, **MySQL**, and **Nginx/Gunicorn** to power backend services of calibration tool.
- Packaged app configs into **Ubuntu 18.04** VM by leveraging **Vagrant**, **Ansible**, **Docker**, **AMIs** and **shell scripting**.
- Deployed calibration tool to **Staging** and **Production** environments with **Ansible**, **Terraform**, **Jenkins** and **CircleCI**.
- Managed web/worker **clusters** by orchestrating various **AWS** resources with **Terraform**.
- Integrated Django services with existing **ETL** pipeline to transform and transfer **500K+** adjustment factors daily.

Liquor Board of Ontario (LCBOnext) • Full-Stack Developer

Waterloo, Sep 18 - Dec 18

- **Developed** metrics monitoring and log gathering for various services by utilizing **MEAN** stack and Azure services.
- Architected dataflow for Mixology's **voice search functionality** by leveraging **ElasticSearch** and **MongoDB**.
- Created **CI/CD pipelines** for numerous **Azure services** by utilizing **Docker**, **Self-hosted Agents**, **Terraform**, and their best practices.
- Developed key features for Grocer Claims' **REST API** by using **Node Typescript**, **PostgreSQL**, and **Azure** services.

Terrene Inc. • Software Developer

Waterloo, Jan 18 - April 18

- Built **data pipelines** to aggregate user data using **Django**, **PostgreSQL**, **Boto3**, and **S3** to transform and transfer thousands of user data logs daily.
- Prepared Ontario's electricity consumption aggregated data for supervised learning by implementing custom **Python scripts** to **ingest**, **aggregate** and **clean data**.
- Integrated **Prometheus** into the core Django apps to monitor traffic through **Grafana** dashboards which provided key insights.

PROJECTS

TheatreShare

- Developed a **full stack application** that allows users to create and enter "theater rooms", chat, and watch movies together in **real time** using **Django**, **Redis**, **Vue.js** and **WebSockets**.

Nibble

- Built a full stack restaurant **POS** system that allows users to order food, reserve tables, and get restaurant information through text messaging by utilizing **StdLib**, **Node.js**, **Messagebird**, and **Firebase**.

Marketplace_api

- Created an online marketplace using **GraphQL**, **Express.js**, and **MySQL** that allows clients to query, cart, and checkout items from a selection of inventory products by using a flexible **query language**.

EDUCATION

University of Waterloo Systems Design Engineering

Sep 2017 – Apr 2022 (expected)

BASc Candidate • President's Scholarship • McGill Hacks 2018 Google Prize • Muay Thai • Photography