Andy **Dang**

FULL STACK DEVELOPER · DATA SCIENTIST

Toronto Ontario, Canada

☐ (+1) 647-471-6635 | ✉ mail@andydang.ca | 🏠 andydang.ca | 🔘 dangandy | 💼 andy-dang-266876130

"The way to get started is to quit talking and begin doing." -Walt Disney

Skills

DevOps	AWS, DigitalOcean, GCP, Netlify, Docker, Pip, PyEnv, Cron, Apache Airflow
Back-end	Koa, Express, MySQL, Firebase, MongoDB, PostgreSQL, Flask, REST API
Front-end	React, Styled Component, React Native
Languages	Python, JavaScript, Shell
Tools	Vim, Google Colab, Jupyter (Lab), Postman
Data Science	FastAI, Tensorflow, Matplotlib, Seaborn, Pandas, Numpy

Work Experience

1000ml   *Toronto, Ontario*
DATA SCIENCE ANALYST   *Aug. 2019 - Apr. 2020*

1000ml follows an agile methodology to provide actionable insights to companies over 2-week-sprints
- Designed a data pipeline using Apache Airflow to connect API microservices with Amazon RDS for PostgreSQL
- Used test driven development techniques to analyze real-time JSON data and provided actionable insights saving over $100,000

Fiverr   *Toronto, Ontario*
FREELANCE DEVELOPER   *May 2019 - Jan. 2020*

Consulted with potential clients from Fiverr and provided proposals with custom solutions tailored to their business needs
- Developed a web app and dashboard using Zoho Creator and Analytics resulting in eliminating data entry and reduced onboarding time
- Designed dashboards and provided analytics using SQL and API microservices to retreive data from Zoho CRM

BluRoot Inc.   *Toronto, Ontario*
FULL STACK DEVELOPER   *Mar. 2017 - Apr. 2019*

Bluroot accelerates business growth by providing analytics and developing scalable web services and automations in a consultant capacity
- Launched an AWS EC2 instance and used Node with Koa to connect API microservices resulting in reduced data entry
- Increased customer retention and acquisition by implementing a RESTful API service to add texting to Zoho CRM

Education

UofT(University of Toronto)   *Toronto, Ontario*
B.S. IN COMPUTER SCIENCE AND SOFTWARE ENGINEERING   *Sep. 2011 - Dec. 2016*

Activities: UTSC Scartan Dragon Boat Club, Volleyball Intramurals

Relevant Projects

Covid
FLASK, GUNICORN, NGINX, REACT, D3, STYLED-COMPONENTS

A web app hosted on DigitalOcean that leverages Machine Learning to predict upcoming confirmed cases of Covid19 by country
- Achieved an R score of 0.91 on Linear Regression after OneHotEncoding and scaling statistics
- Increased user retention by implementing a select menu that displays historic values of countries and next week's prediction

Decisive Alpha
PYTHON, PANDAS, BACKTRADER

Research combinations of technical indicators and backtested against the the past and current market
- Used GridSearch methodology to find the most optimal parameters for technical indicators resulting in Sharpe Ratio of 0
- Acheived a walkthrough efficiency of 80% over a 2 year period and yielded 17% profit in paper trading

Mejuri Recommendation Engine
PYTHON, FASTAI, STARLETTE, AWS ELASTIC BEANSTALK (EBS), SELENIUM

A recommendation app that classifies jewellery and recommends the closest matched product on Mejuri
- Achieved an accuracy score of 98% using transfer learning with ResNet34 and images scraped from Mejuri