ERIC LIU

Computer Science Undergraduate | Seeking Winter 2021 Software Internships

LANGUAGES

C++ C Java C# Python HTML/CSS/JS SQL PHP Ruby

TECHNOLOGIES



EXPERIENCE

Software Engineer

Moralyzer

🛗 July 2020 - Present

♥ Waterloo, ON

- Developed RNN + LSTM models to filter out offensive and irrelevant comments using Keras, TensorFlow, CuDNNGRU, and Word2Vec
- Built several API integrations using React, Ruby on Rails, and REST design
- Designed an ETL pipeline to collect and monitor data from user posts

Software Development Engineer (Test)

Wish (ContextLogic)

May 2020 - Aug. 2020

San Francisco, California

- Automated 50% of daily API, Web, and iOS regression suites with Python, JavaScript, and Swift
- Migrated functional tests into CI/CD pipelines using Docker and GitLab to save 93% of daily testing time
- Proposed a new pattern matching algorithm for merchant transaction fraud detection, saving \$2 million USD in GMV annually

Director of Technology & Senior Software Engineer WeBuild

April 2020 - Present

♥ Waterloo, ON

- Built the company's robust website and oversaw the **architecture** and **design** of **full-stack** applications using **MERN** stack and **cloud deployment** services
- Worked closely with clients to gather imperative design approval and ensure systems designed are scalable, reusable, and service-oriented
- Increased company growth by 52% for clients via SEO, copywriting, and API integrations

Software Engineer

Synapse Data Solutions

m Dec. 2018 - June 2019

Richmond Hill, ON

- Wrote Python web-scraping scripts to increase database entries by 32% along with documentation in Linux and Bash environments
- Performed data cleansing and mining on database entries reducing lookup times by 38% and false positive matches by 61%

EDUCATION

Candidate for Bachelor's of Computer Science University of Waterloo

Sept. 2019 - Present

Relevant Coursework: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction, Object-Oriented Software Development

Online Courses: Algorithms Part I (Princeton), Machine Learning (Stanford), Financial Markets (Yale)

PROJECTS

Table App

Restaurant Collaborative Filtering Recommender System

- Web and Android app built using Django, PostgreSQL, Kotlin, Firebase, scikit-learn, NLP, KNN, a CNN, and Yelp API
- Achieved an accuracy of 68.4% on validation sets using matrix factorization and stochastic gradient descent

DevSpace

Social Media Platform for Developers

- Full-stack MERN app connecting countless of developers together using Redux
- Allows users to manage their profiles, post, comment on, and like messages in their feed

Videofy

Video Streaming Platform Inspired by Youtube

- Full-stack web app with functionalities identical to Youtube built using React, Redux, Semantic UI. CSS Grid, and Youtube API
- Implemented home feed featuring infinite scrolling, trending videos, video searching

ImgCleaner

Using AI to Clean and Denoise Images

- Created Flask web app that cleans unclear and messy images using Custom U-Net Architecture and Pytorch
- Based on image restoration Machine Learning research papers

AWARDS

Facebook Hacker Cup 2020

98th percentile worldwide in Qualifying Round

Terminal hosted by Correlation One Placed 7th/25,972 players (1st in Canada)

Google Code Jam 2020

97th percentile worldwide in Qualifying Round

LeetCode

Top 3% of contestants worldwide in July 2019

Google Code Jam 2019

95th percentile of contestants worldwide in Qualifying Round

USA Computing Olympiad - Platinum Top 20% of contestants worldwide