Andrew Leung

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Education

Northeastern University

Sep 2017 - May 2022

B.S. Computer Science, GPA: 3.912

Boston, MA

Skills

Programming Languages: TypeScript, JavaScript, Python, Java, SQL

Tools & Frameworks: Git, React, Redux, Express.js, Jest, HTML/CSS, PostgreSQL

Work Experience

Poloniex Jan 2021 – Aug 2021

Software Engineer Co-op

Remote

- · Maintained full-stack internal web tools for managing crypto exchange using PHP, TypeScript, Java, and React
- Led effort to migrate dynamic web marketing material to a content management system, successfully eliminating engineering time spent manually updating 14-18 instances of material per month
- Constructed Zendesk and Jira Service Desk API integrations to streamline customer support engineer workflows that process 100s of customer tickets per day
- Improved developer experience for a Node.js permissions service by creating useful abstractions for rule composition, simplifying testing patterns in Jest, and contributing to underlying open source rules engine

Sandbox at Northeastern University

Sep 2020 - May 2021

Software Developer

Remote

- Developed features for a university course planning web application using Ruby on Rails, TypeScript, and React
- Modeled course schedule data in TypeScript, wrote logic for validating course requirements, and implemented React components to display interactive course plans to users
- · Wrote a Node.js script to automatically parse university course documentation into JSON for internal usage
- Provided technical mentoring to teammates on tasks through routine pair-programming

Teikametrics Jan 2020 – Aug 2020

Software Engineer Co-op

Boston, MA

- Demonstrated technical growth starting with no Scala, TypeScript, or web development experience to becoming an active contributor to a Scala with Cats backend and a TypeScript with React/Redux frontend
- · Worked with designers to build front-end user flows and interactions with React, TypeScript, HTML, and CSS
- · Surfaced API endpoints in Scala used to persist millions of rows of user data
- Developed CSV bulk upload features used by internal analysts and external users 12 times per day on average

Projects

Random Audio Player TypeScript, Node.js, Fastify, React, TailwindCSS, NGINX, Docker

2022

github.com/andrewjleung/raudi

- · Created a full-stack web application for demoing and downloading random sounds fetched from the Freesound API
- Deployed application frontend, backend, and NGINX reverse proxy to Railway using Docker and GitHub CI/CD

TheNeedleDrop Review Dataset TypeScript, Node.js, Fastify, YouTube Data API, PubSubHubBub

2022

github.com/andrewjleung/fantano-reviews

- Implemented a Node.js script to fetch and parse metadata from the YouTube Data API and generate a CSV dataset of popular music critic TheNeedleDrop's video music reviews
- Automated real-time updates to a hosted dataset using a PubSubHubBub server deployed to DigitalOcean via GitHub CI/CD

Compiler for Python-like Language OCaml, C, x86 Assembly

2022

Closed Source

- · Wrote a compiler backend in OCaml and a C runtime for a Python-like expression-oriented language
- · Supported dynamically-typed values including numbers, Booleans, tuples, strings, and first-class functions
- Managed program memory with mark-and-sweep garbage collection and register allocation
- Wrote over 600 unit tests and end-to-end tests to ensure correctness of compilation using OUnit