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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

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 is 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

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

Random Audio Player TypeScript, Node.js, Fastify, React, TailwindCSS, NGINX, Docker github.com/andrewjleung/raudi

2022

• Created a full-stack web application to quickly demo and download random sounds fetched from the Freesound API, featuring cookie-based session management and a custom HTML5 audio player

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

2022

github.com/andrewjleung/fantano-reviews

- Implemented a Node.js script to parse metadata from the YouTube Data API and generate a CSV dataset containing all of popular music critic TheNeedleDrop's video music reviews
- Automated updates to a live hosted dataset on GitHub using Fastify and PubSubHubBub