Andrew Leung

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EDUCATION

B.S. Computer Science

Sep 2017 – May 2022

Northeastern University, Khoury College of Computer Sciences

Boston, MA

GPA: 3.912/4.0

SKILLS

Programming Languages: TypeScript, JavaScript, Java, Python, Racket, Scala, OCaml

Frameworks: React, React Query, Redux, Express.js, Fastify, Jest

Databases: PostgreSQL, MongoDB

Work Experience

Poloniex Jan 2021 – Aug 2021

Software Engineer Co-op

Remote

- Built and maintained internal tools written in PHP, TypeScript, Java, and React used to manage accounts, funds, and markets across crypto exchange
- Orchestrated cross-team (engineering, security, marketing, product) effort to migrate web marketing material to a content management system, eliminating engineering time spent updating 14-18 instances of material per month
- Implemented key features of a Node.js permissions authentication service, including JWT/JWK-based authentication, open source improvements to underlying rules engine, and streamlining of testing with Jest
- Created API actions and automations integrated with internal and external services, enabling support engineers to process hundreds of customer tickets per day

Sandbox at Northeastern University

Sep 2020 – May 2021

Developer for GraduateNU

Remote

- Built new features for course planning application with TypeScript, React, Redux, and Ruby on Rails
- Adapted to changing graduation requirements by iterating on existing models, revising logic for validating course requirements, and updating UI to reflect changes
- Wrote a script to parse university course documentation into a JSON schema using Node.js
- Provided technical mentoring to teammates 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 functional Scala with Cats backend and a TypeScript with React/Redux frontend
- Surfaced Scala APIs with Slick, one of which has been used to persist nearly 4 million unique database entries
- Developed and augmented CSV bulk upload features used by internal analysts and external users 12 times per day
- Built features for the Campaign Creation Wizard, including a new user flow and an edit mode for advertising campaigns

Projects

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

2022

Closed Source

- Wrote a compiler backend in OCaml and a runtime in C for a Python-like expression-oriented language
- Fully supported strong dynamically typed values, including number and Boolean primitives as well as heap-based tuples, strings, and mutually recursive first-class functions
- Managed program memory with mark-and-sweep garbage collection and register allocation

 ${\bf Raudi}\ TypeScript,\ Node.js,\ Fastify,\ React,\ React\ Query,\ TailwindCSS$

2022

github.com/andrewjleung/raudi

• 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

The Needle Drop Review Dataset Type Script, Node.js, You Tube Data API, Pub Sub Hubbub

2022

github.com/andrewjleung/fantano-reviews

- Wrote a script for generating a CSV dataset with all of popular music critic TheNeedleDrop's video music reviews
- Automated live updates to a hosted dataset by subscribing a callback server to all future review video uploads