

Andrew Leung

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Work Experience

PayPal Software Engineer 1 – Remote

Jun 2023 – Present

- IC within Braintree Post-Processing, maintaining internal Ruby on Rails application for assessing fees and funding merchants
- Led development and production testing of crucial funds disbursement flows used to quarantine risk-identified merchants
- Increased average daily revenue by \$160,000 by correcting rate-based fee calculations to use rounding instead of truncation
- Prevented \$x in incorrect money movements after identifying and addressing time-related bug for money movements

Poloniex Software Engineer Co-op – Remote

Jan 2021 – Aug 2021

- Reduced engineering effort spent updating web marketing material by 100% by integrating a content management system
- Constructed Zendesk and Jira Service Desk API integrations and internal web tools in PHP, TypeScript, and React to streamline customer support engineer workflows
- Improved developer experience for a Node.js permissions service by creating abstractions for rule composition, simplifying testing patterns in Jest, and contributing to underlying open source rules engine library

Teikametrics Software Engineer Co-op – Boston, MA

Jan 2020 – Aug 2020

- 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
- Built front-end user flows and interactions according to designer specifications with TypeScript, React, HTML, and CSS
- Surfaced API endpoints in Scala to persist millions of rows of user data in a PostgreSQL database
- Reduced effort for users modifying ad campaign targets by implementing a React UI and Scala API for bulk CSV uploads

Projects

Compiler for Python-like Language

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

Education

Northeastern University B.S. Computer Science, 3.9/4.0 GPA – Boston, MA

Sep 2017 – May 2022

Skills

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

Tools & Frameworks: Git, React, Redux, Next.js, Express.js, Ruby on Rails, HTML/CSS, Tailwind, PostgreSQL, Vim