Andrew Leung

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Skills

Programming Languages: TypeScript, JavaScript, Python, Ruby, SQL, HTML, CSS
Tools & Frameworks: Git, React, Next.js, Ruby on Rails, Tailwind, PostgreSQL, BigQuery, Vim

Work Experience

PayPal Software Engineer 1 — Remote   Jun 2023 – Present

- Maintained Braintree's Ruby on Rails application for assessing fees, disbursing merchant funds, and generating reports
- Led development and live testing of feature used to pause disbursements and hold funds for high-risk or delinquent merchants resulting in a 100% success rate across live testing cases and processing of $420,000 in held funds per day
- Migrated over $54,000,000 in held merchant funds out of a deprecated internal bank account and into new interest-generating accounts by designing and building a recurring job to find and transfer lingering funds
- Increased monthly revenue by $450,000 by correcting fee calculations to round to the nearest cent instead of truncating
- Prevented movement of over $175,000 into the wrong internal bank account by resolving an edge case in the timing of transaction ingestion, transfers between internal bank accounts, and transitioning of merchants onto new disbursement flows

Poloniex Software Engineer Co-op — Remote   Jan 2021 – Aug 2021

- Reduced engineering effort spent updating web marketing material by 100% by migrating content to DatoCMS and using GraphQL to retrieve and serve content dynamically from a Node.js backend
- Broadened the expressiveness of JSON-based rule definitions used by a Node.js permissions service to govern user permissions across internal applications by contributing support for logical negation of rules to underlying open source rules engine
- Constructed Zendesk and Jira Service Desk API integrations and internal web tools in PHP, TypeScript, and React to streamline customer support engineer workflows

Sandbox at Northeastern University Software Developer — Remote   Sep 2020 – May 2021

- 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 parser to translate university course documentation PDFs into JSON for internal usage
- Provided technical mentoring to teammates on tasks through routine pair-programming

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 frontend built with TypeScript, React, and Redux
- Reduced effort for users modifying ad campaign targets by implementing a React UI and Scala API for bulk CSV uploads

Projects

Bookmark Manager github.com/andrewjleung/linkr   2023 – Present

- Created a self-hostable bookmark URL manager using TypeScript, React, Next.js, and shadcn/ui components
- Built a tool for importing and re-categorizing bookmarks from Raindrop.io
- Persisted data in a PostgreSQL database hosted by Supabase and queried via Drizzle ORM
- Implemented exclusive GitHub OAuth login for a predefined user using Supabase Auth

Compiler for Python-like Language Closed Source   2022

- 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