Andrew Leung

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Skills

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

Work Experience

PayPal Software Engineer 2 — Remote   Jun 2023 – Present

- Maintained Braintree's internal Ruby on Rails app used to disburse over $1.5B a day across 15,000 active merchants
- Led development, oversaw live testing, and served as a subject matter expert for a feature used to withhold $1.7M a day from high-risk or delinquent merchants
- Automated the migration of $57M in held merchant funds into new bank accounts for merchants onboarding to new acquiring banks using a Ruby Rake task scheduled with a Kubernetes CronJob
- Increased monthly revenue by $650,000 by correcting fee calculations to round to the nearest cent instead of truncating
- Identified and resolved an incident which caused the misallocation of $80M due to a regression from a Rails upgrade

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

- Eliminated engineering involvement in updating web marketing content by integrating a content management system, fetching content with GraphQL and serving it to the UI from a Node.js backend
- Simplified JSON-based rule definitions in a Node.js service used to govern user permissions by adding support for logical negation of rules to its open source rules engine
- Integrated internal tools with Zendesk and Jira Service Desk APIs to streamline customer support workflows using PHP, TypeScript, and React

Teikametrics Software Engineer Co-op — Boston, MA   Jan 2020 – Aug 2020

- Rapidly ramped up onto new technologies, progressing from no Scala, TypeScript, or web development experience to becoming an active contributor to a Scala with Cats backend and a TypeScript, React, and Redux frontend
- Spun up APIs in Scala to handle bulk CSV uploads of ad campaign data and expose campaign performance metrics
- Implemented interactive React components to guide users through creating ad campaigns and display campaign metrics

Projects

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

- Created a self-hosted bookmark manager for personal use using TypeScript, React, Next.js, and shadcn/ui components
- Persisted bookmark data in a PostgreSQL database hosted by Supabase and queried with Drizzle ORM
- Restricted sign-in to a predefined user with GitHub OAuth and Supabase Auth
- Built a tool for importing and re-categorizing bookmarks from Raindrop.io

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