

# Andrew Leung

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## Skills

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**Programming Languages:** TypeScript, JavaScript, Python, Ruby, SQL, HTML, CSS

**Tools & Frameworks:** React, Next.js, Tailwind, Ruby on Rails, PostgreSQL, BigQuery, Git, Vim

## Work Experience

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**PayPal** Software Engineer 2 — Remote

Jun 2023 – Present

- Maintained Braintree's internal Ruby on Rails app used to fund over \$1.5B a day across tens of thousands of merchants
- Led development and testing of feature used to withhold \$2.2M 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 \$670,000 by correcting fee calculations to round to the nearest cent instead of truncating
- Prevented the misallocation of \$6M by identifying and fixing an edge case in the timing of internal routing of funds to different bank accounts

**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

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**Bookmark Manager** [github.com/andrewjleung/linkr](https://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

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

Sep 2017 – May 2022