

# Andrew Leung

Fort Worth, TX | [andrewleung104@gmail.com](mailto:andrewleung104@gmail.com)

[andrewjleung.me](https://andrewjleung.me)  
[linkedin.com/in/andrewjleung](https://linkedin.com/in/andrewjleung)  
[github.com/andrewjleung](https://github.com/andrewjleung)

## Work Experience

**PayPal** Software Engineer 1 — Remote Jun 2023 – Present

- Maintained internal Ruby on Rails application for assessing fees and funding merchants as part of Braintree division
- 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

**Bookmark Manager** [github.com/andrewjleung/linkr](https://github.com/andrewjleung/linkr) 2023 – Present

- Created a self-hostable bookmark manager using TypeScript, Next.js, and shadcn/UI components
- Persisted data in a PostgreSQL database hosted by Supabase and queried via Drizzle ORM

**Random Audio Player** [github.com/andrewjleung/raudi](https://github.com/andrewjleung/raudi) 2022 – Present

- Created a full-stack web application for demoing and downloading random sounds fetched from the Freesound API
- Deployed application frontend, backend, and NGINX reverse proxy to Railway using Docker

**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

## 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