

David Ly

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EDUCATION

University of Waterloo

Expected Graduation: April 2026

Bachelor of Applied Science, Management Engineering with Computing Option

GPA: 3.7/4.0

- Relevant Coursework: Data Structures and Algorithms, Databases and Software Design, Real-Time Systems, Introduction to Machine Learning, Principles of Software Engineering, Search Engines, Software Design and Architectures (Kotlin)

EXPERIENCE

StackAdapt

September 2025 – December 2025

Incoming Software Engineer Intern

- Working as part of the Platform Team, using React, Go, and Ruby on Rails during Fall 2025

theScore

January 2025 – April 2025

Software Engineer Intern

- Optimized query for specific promotions by restructuring inefficient PostgreSQL joins, reducing query time by 64%
- Engineered gRPC endpoints to support the activation of onboarding promotions to targeted regions using Elixir
- Constructed UI for Play Your Way promotion selection for theScore's CMS tool with Phoenix LiveView
- Developed a GraphQL API in Elixir enabling dynamic promotion enrollment for the Play Your Way feature

Relay Financial (Series B)

May 2024 – August 2024

Software Engineer Intern

- Launched Apple Pay for Relay cards, increasing mobile payment adoption by 15% in TypeScript and Swift
- Built onboarding flow for third-party checkbooks, activating 4,100+ accounts using React Native, Redux, React Context
- Streamlined transaction workflows by implementing deep linking with TypeScript, AWS Lambda, and Express.js, reducing receipt attachment time by 75% and enabling instant navigation to specific entries
- Improved receipt management workflow for 4,000+ businesses by enabling admin appointment using Redux Sagas

Dandelion Networks

September 2023 – December 2023

Software Engineer Intern

- Rolled out real-time notifications to 1000+ users for new messages and transactions on iOS and Android using Notifee
- Reduced account restoration time from 24 hours to 3 minutes by developing an account recovery system in React Native

JANA Corporation

January 2023 – April 2023

Software Engineer Intern

- Enhanced risk visualization for a \$20M pipeline product by developing an interactive color-coded mapping tool in React, increasing hazard identification accuracy by 40% and reducing assessment time from days to hours
- Boosted test case coverage by upwards of 25% through implementing unit tests with Jest and React Testing Library

PROJECTS

Audio Transcriber | React, Spring Boot, Spring AI, OpenAI

- Engineered a Fullstack app enabling audio file uploads with OpenAI speech-to-text conversion for transcribing
- Created a React frontend with REST APIs built on a Spring Boot backend with Spring AI integration

NotePal | React, Node.js, Express.js, MongoDB

- Developed a Fullstack web application where users can create personalized notes within their own accounts
- Implemented a React frontend with REST APIs built on Node.js/Express.js, and integrating MongoDB database

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, Ruby, Elixir, Go, Java, Kotlin, SQL, HTML, CSS

Technologies: React, React Native, Redux, Node.js, Express.js, Ruby on Rails, gRPC, REST APIs, Phoenix LiveView, Spring Boot, Flask, GraphQL, Jest

Tools: PostgreSQL, MySQL, MongoDB, Git, Postman, AWS, Docker, Firebase