





Navinn Ravindaran

 navinn.ravindaran@mail.utoronto.ca

 navn.me  navn-r  navn-r

EDUCATION

University of Toronto | HBSc, Computer Science Co-op

Apr 2024 (Expected)

Teaching Assistant: Software Design, Introduction to Databases and Web Applications, Intro to Software Engineering, Programming on the Web, Engineering Large Software Systems

SKILLS

Languages: TypeScript, JavaScript, HTML, CSS, Java, Python, Ruby, SQL, C, Shell

Frameworks & Tools: React, Angular, Node.js, Ruby on Rails, Docker, Jira, MongoDB, PostgreSQL, Firebase

Concepts: APIs (REST, GraphQL), Agile Methodologies (Scrum, Kanban), Test Driven Development, DBMS, CI/CD

EXPERIENCE

American Express | Full-Stack Software Engineer Intern

Sept 2023 — Dec 2023

- Refined card member connections by **50%** at Pearson International Airport through building an Apple Wallet priority pass
- Spearheaded an automated dependency management system with Node.js, TypeScript, GraphQL and GitHub Actions, reducing technical debt by **27%** through eliminating manual vulnerability patching

HubSpot | Software Engineer Co-op

Aug 2022 — Dec 2022

- Developed a VSCode extension leveraging TypeScript's internal type checker to provide full type introspection for symbols, eliminating the need to traverse multiple locations for nested type definitions
- Implemented the ability to re-run migrations across **1000+** front-end repositories using React and Redux, streamlining core infrastructure workflows by removing redundant duplication of settings
- Extended a project generator CLI to support automated code refactoring scripts using Node and TypeScript, enabling all HubSpot front-end developers to build code mods using the TypeScript abstract syntax tree

Royal Bank of Canada | Full-Stack Software Developer Co-op

Jan 2022 — Apr 2022

- Optimised **35+** crucial user interactions by leveraging Google Analytics to streamline the mortgage application process
- Expanded access to new French and Bilingual mortgage clients by implementing automated language preference with app-wide translations using Angular and Spring boot

Halo Science | Full-Stack Software Engineer Intern

May 2021 — Aug 2021

- Pioneered an E2E automation pipeline with Jest, Playwright and GitHub Actions, eliminating redundant manual user tests
- Reduced developer setup from **2 hours** to **10 minutes** by dockerizing the React and Rails codebase with Docker Compose
- Built a **33%** faster database seeding script with auto-generated data using Ruby, replacing outdated migration scripts

CaseWare International | Software Developer Co-op

Sept 2020 — Apr 2021

- Decreased developer & QA regression efforts by **60%** by converting manual tests to unit tests with Karma and Jasmine
- Refactored **700+** lines of legacy AngularJS plugins to Angular, improving code modularity using dependency injection
- Developed an audit trail function used by **130+** international accounting firms, minimizing problematic behaviors such as asset misappropriation and protecting clients by providing transaction history

PROJECTS

DrawHub

(GitHub)

- A realtime collaborative whiteboard platform featuring custom visibility, email notifications, and exportable canvasses
- Technology:** React, NestJS, WebSockets, GraphQL, MongoDB, Redis, Auth0, AWS S3, Kubernetes, DigitalOcean

Noten

(Google Play Store) (GitHub)

- A semester-based grade tracker with **100+** installs, multiple grade scales, grade prediction, and selective calculation
- Technology:** Ionic, React, TypeScript, Firebase Realtime Database + Authentication