

# Rayton Lin

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## EDUCATION

### University of Waterloo

*Bachelor of Computer Science*

Waterloo, ON

*Sept 2020 - May 2025*

- GPA: 3.7/4.0
- Coursework : Object-Oriented Programming, Algorithms, Data Structures, Operating Systems, Compilers

## TECHNICAL SKILLS

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

**Frameworks:** Node, Express, Django, Flask, Nest, Spring, Ruby on Rails, Kotlin, React, Angular, Next.js, Vue

**Developer Tools:** Git, Docker, Amazon Web Services, Kubernetes, Jenkins, Google Cloud Platform, Vercel, Heroku

**Databases:** MongoDB, DynamoDB, Firebase, PostgreSQL, MySQL

**Other Tools:** Windows, Linux, MacOS, Bash, Unix, GraphQL, Figma, Maven, JPA, Redis

## WORK EXPERIENCE

### Software Engineer Intern

May 2022 – Aug 2022

*GoBolt*

*Toronto, ON*

- Worked with Ruby on Rails, Nest.js, Typescript, React, Redis, Docker, Kubernetes and PostgreSQL on the product engineering team, which included fulfillment, warehouse storage, and delivery apps for e-commerce companies.
- Added API endpoints, schemas, interactors, workflows, webhooks and data adapters for the products of new merchants to the legacy core monolith RESTful API, increasing customer satisfaction and orders by 10%.
- Developed an internal integrations web service to transfer requested data to the core API, with a microservices service-repository backend deployed on Google Cloud Platform which sped up internal processes by 10%.
- Integrated BestBuy, Skubana and IKEA APIs into our fulfillment, warehouse storage and delivery apps.
- Developed unit, integration and end-to-end tests with RSpec, added logging messages, improved API documentation with Swagger, and used Github Actions and ArgoCD for CI/CD pipelines.
- Submitted over 20 Pull Requests totaling over 1000 lines of code, and participated in writing tickets and planning sprints for Agile software development.

### Software Engineer Intern

May 2021 – Aug 2021

*WE Accelerate*

*Waterloo, ON*

- Designed and built a health care file sharing web app with MongoDB, Express, NodeJS Typescript, AWS EC2, Kubernetes and React for a start-up company on the product engineering team as a full-stack software engineer.
- Developed an activity logger, user registration, file uploading, and client UI for **CRUD** actions on a REST API.
- Integrated responsive web design, Redux state management, OAuth2.0 auth, and Stripe.js for payments.
- Implemented a Model-View-Controller backend architectural pattern, protected routes, and password hashing.

## PROJECTS

### Task Manager Web App | *React, Typescript, NodeJS, NestJS, PostgreSQL*

July 2022

- [Created](#) and [deployed](#) a web app using React, Express, NodeJS, Nest.js and PostgreSQL to ensure items follow a consistent structure, which allows users to manage, search and filter tasks for daily use.
- Integrated Passport and Bcrypt for user authentication and password hashing, and created a front-end UI.
- Developed a service-repository backend with a RESTful API, and added Jest tests and logging messages.
- Implemented Docker containers, CRUD actions through REST API calls, and CI/CD pipelines using Heroku.
- [Created](#) a separate API with GraphQL and MongoDB to manage school lesson tasks.

### Marketplace App | *ReactJS, Typescript, Firebase*

July 2022

- [Created](#) and [deployed](#) a web app using React and Firebase for a marketplace in a hackathon group.
- Integrated user authentication with an email and password or Google OAuth 2.0 in a backend.
- Added functionality for the Google Maps API, protected routes, Leaflet, and deployed with Vercel.
- Implemented CRUD actions in order to update the Firebase database through REST API calls, and included an image repository to compress and store image files.