Rayton Lin

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EDUCATION

University of Waterloo Waterloo, ON
Bachelor of Computer Science *Sept 2020-May 2025 (Expected)*
- 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, AWS, Kubernetes, Jenkins, Google Cloud Platform, Vercel, Heroku, Netlify, Bash, Unix
Databases: MongoDB, DynamoDB, Firebase, PostgreSQL, MySQL
Other Tools: Windows, Linux, MacOS, GraphQL, Figma, Maven, JPA

WORK EXPERIENCE

Backend Software Developer May 2022 – Aug 2022
GoBolt *Toronto, ON*
- Worked with **Ruby on Rails, Nest.js, Typescript, React** and **PostgreSQL** on the core platform. Worked on web services for fulfillment, warehouse storage, and delivery apps for companies to deliver online orders.
- Added API endpoints, schemas, interactors, workflows, webhooks and data adapters for the products of new merchants to the legacy core monolith RESTful API, increasing the amount of business by 10%.
- Developed an internal integrations web application 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%.
- Migrated staging environment to **Docker** for internal tools.
- Developed unit, integration and end-to-end tests with **RSpec** and improved API documentation with **Swagger**.
- Submitted over 20 Pull Requests totaling over 1000 lines of code.

Full-Stack Software Developer May 2021 – Aug 2021
WE Accelerate *Waterloo, ON*
- Developed a health care file-sharing service with **MongoDB, Express, Typescript, AWS EC2** and **React**.
- Developed an activity logger, user registration, file uploading, and client UI for **CRUD** actions on a REST API.
- Integrated Passport/Bcrypt for OAuth2.0 auth, Stripe.js for payments, protected routes, and password hashing.
- Implemented a **Model-View-Controller** backend architectural pattern, and deployed using **Kubernetes**.

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** architecture backend with a RESTful API, and **Jest** tests.
- 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.