

DHRUVIL RANGANI

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Full-Stack Software Engineer / Node.js / Express.js / TypeScript / React / PostgreSQL

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SUMMARY

Full-Stack Software Engineer with 2+ years of combined academic and project experience in Node.js, TypeScript, React, Next.js, Material UI, and PostgreSQL. Skilled in building scalable APIs, creating accessible UIs with Figma, managing workflows with Jira, and AWS cloud deployment. A collaborative problem-solver passionate about inclusive digital products and generative AI solutions.

EDUCATION

Centennial College, Toronto

Sept 2022 – Apr 2025

Advanced Diploma in Software Engineering Technology (*Honours*)

Relevant Coursework: Data Structures & Algorithms, OOP, Database Management, Web App Dev, Software Engineering Principles, System Design, Cloud Computing, Computer Networking, API Dev, Agile Methodologies.

EXPERIENCE

Full-Stack Developer — Vital Plus, *Team Project*

Jan 2024 – Apr 2024

- Collaborated in a 4-dev team to build REST/GraphQL APIs with Node.js, Express.js, and TypeScript, achieving 90% unit-test coverage via TDD.
- Designed high-fidelity mockups in Figma and translated them into responsive React components for seamless user experiences.
- Managed development tasks, sprint planning, and progress tracking using Jira within an Agile development workflow.
- Automated CI/CD pipelines using GitHub Actions to Docker to AWS EC2, with CloudWatch monitoring for zero-downtime deployments.

Backend Developer — Recipe Catalog, *Team Project*

Sept 2024 – Dec 2024

- Designed and indexed PostgreSQL schemas, reducing complex query latency to under 200 ms.
- Led Agile ceremonies (sprint planning, reviews, retros) in a four-dev team, enhancing delivery predictability.
- Automated build to test to deploy pipelines and configured CloudWatch alerts for hands-off releases.
- Authored comprehensive Swagger/OpenAPI documentation, accelerating frontend integration by 25%.

AI-Powered Email Platform, *Personal Project* [Live](#) - [Code](#)

Apr 2025 – Present

- Architected a scalable email system with PostgreSQL for threaded storage and secure SMTP/IMAP adapters.
- Integrated AI-assisted search using OpenAI embeddings, enabling query responses in under 50 ms across 10,000+ messages.
- Deployed with Docker Compose and Redis task queues, prioritizing robust authentication and data protection.

Blog Platform, *Personal Project* [Live](#) - [Code](#)

May 2024 – Jul 2024

- Built a CMS-driven blog with server-side authentication, achieving 100/100 in Lighthouse SEO & Performance audits.

Fintech App, *Personal Project* [Live](#) - [Code](#)

Sept 2023 – Dec 2023

- Developed secure JWT-protected APIs for money transfers, handling 10,000 demo users effectively.
- Crafted responsive React UI with Tailwind CSS, ensuring WCAG-AA accessibility across devices.

SKILLS

Languages: JavaScript, TypeScript, SQL, Java, Python, C#

Frontend: React.js, Next.js, Material UI, Figma, Tailwind CSS, HTML, CSS, Accessibility (WCAG)

Backend: Node.js, Express.js, GraphQL, REST APIs, FastAPI, Spring Boot

Databases: PostgreSQL, MongoDB, MySQL, DynamoDB

Cloud/DevOps: AWS (EC2, RDS, Lambda, S3), Docker, GitHub Actions, CI/CD

Testing: Jest, Vitest, Postman, Unit Testing, Integration Testing

Tools & Methodologies: Agile/Scrum, Jira, Git, Inclusive Design, Monitoring Concepts