

# RISHI VARMAN R T

7824092044 • [rishivarmanofficial@gmail.com](mailto:rishivarmanofficial@gmail.com) • [LinkedIn](#) • [GitHub](#) • Halifax, NS, Canada

## SUMMARY

Results-driven and adaptable **full-stack software engineer** with over **3 years of experience** across **telecom, SaaS, and cloud platform** sectors. Skilled in designing and developing web, mobile, and cloud-based applications aligned with business goals, using platforms like **AWS/GCP**. Strong grasp of Agile Scrum methodologies, **object-oriented programming**, SOLID principles, data structures, and software design patterns. Possesses practical knowledge of **machine learning concepts** and experience integrating **AI solutions** into full-stack systems. **Open work permit** holder, eligible to work anywhere in Canada. **Willing to relocate**, currently residing in **Halifax**.

## EDUCATION

**Dalhousie University**, Halifax, NS, Canada

January 2024 – May 2025

**Master of Applied Computer Science [CGPA: 4.08/4.30]**

**Anna University**, Tamil Nadu, India

August 2018 – June 2022

**Bachelor of Engineering in Computer Science [CGPA: 9.06/10]**

[First class with distinction]

## TECHNICAL SKILLS

<b>Frontend Development</b>	: React.js, JavaScript, TypeScript, Redux, HTML, XML(Markup), CSS(Stylesheet)
<b>Backend Development</b>	: Spring Boot (Java), Node.js, Nuxt.js, Flask (Python), Django
<b>DBMS</b>	: MySQL, BigQuery (GCP), MongoDB, Firebase, Elasticsearch, DynamoDB (AWS)
<b>DevOps</b>	: Git, Jenkins, Docker, Kubernetes, Ansible
<b>Other</b>	: Kafka, ActiveMQ, TensorFlow, Linux, Grafana, Datadog
<b>Concepts</b>	: Agile Methodology, DSA, OOPS, SOLID Principles, TDD, CI/CD, Unit & Integration Testing

## PROFESSIONAL EXPERIENCE

**Full Stack Developer** (Contract) | **Redbrick Technologies, Victoria, BC**

January 2025 – Present

- Implemented and documented the feature flag migration for Shift browser's landing page using **Vue JS, Nuxt JS, TypeScript, ConfigCat and Confluence**, optimizing ad performance for **30,000+ active users**.
- Created end-to-end and unit tests **with Playwright and Vitest**, improving code coverage by 20%.
- Improved system observability and reliability by developing **Datadog** monitors, reducing downtime by 25%.
- Built **CI/CD pipelines** for ad deployment using Python, **AWS CodePipeline** and GitHub Actions, streamlining workflows and accelerating release cycles

**Software Engineer** | **Aeris Communications**

March 2023 – December 2023

- Led the **migration of CDR billing systems** from Oracle BRM to Google Cloud Platform (GCP), achieving 22.4% cost savings by using BigQuery for efficient **data processing and warehousing**.
- Streamlined and **managed ETL workflows** using Apache Airflow, ensuring smooth **data migration** and seamless system integration with minimal downtime.
- Developed and executed **CRON jobs to automate billing processes**, successfully completing every stage of the billing modules—filtering, rating, and report generation—for three CDR billing schemes (PAYG, PBR, ADBR).

**Software Engineer** | **Ericsson**

February 2022 – March 2023

- Designed, developed, tested, and delivered end-to-end features of the components in **Ericsson's IOT-Accelerator**, a cloud-based connectivity platform for diverse sectors.
- Worked on the Implementation of **Location Based Service (LBS) API** - An API which focuses on charging the enterprises based on their API usage, which resulted in a 5.67 % revenue increase.
- Handled the **Sub System Responsibility (SSR)** for **ActiveMQ**, a message storing queue machine for the IOTA project, ensuring reliable performance by monitoring metrics through Grafana dashboard and troubleshooting issues or bugs.

**Software Developer** (Contract) | **Zoho Corporation**

February 2022 – March 2023

- Designed a Railway Ticket Reservation Minimum Viable Product using Struts2 and core Java design patterns, eliminating third-party dependencies with XML mapping.

## ACADEMIC PROJECTS

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**TripmateAI** (Vue.js, Node.js, AWS EC2, VPC, DynamoDB, ASG, Lambda, S3, Cognito, Vertex AI) ([Link](#)).

- An **AI-powered travel planning platform** that generates personalized itineraries using Google Vertex AI and publishes them.
- Designed a serverless 3-tier architecture featuring Cognito authentication, PDF itinerary generation, and real-time collaboration.

**NutriFit** (React.js, Express.js, MongoDB, OpenAI) ([Link](#)).

- A **full-stack wellness platform** with workout tracking, AI-recipe generation, e-commerce, and program builder features
- Incorporated CI/CD for 100% automation in building, testing and deployment.

**Contextual Knowledge Search Platform** (React.js, Flask, Cohere, Lang Chain, MongoDB) ([Link](#))

- Designed a lighter and more secure alternative to cloud based LLM services for **information retrieval** using python.
- Integrating **Cohere-LLM model** with **Chroma vector DB** optimized for 100% on Prem deployment.

**Matchify** (Spring boot, MySQL, React.js, Amazon S3, Geocoding API, Mockito, Docker) ([Link](#))

- A **Social Media Web Application**, which enables user matching based on interest similarity and event participation.
- Followed **MVC** architecture, utilized **TDD** methodology, and deployed on Docker with **CI/CD pipelines**.

## OTHER WORK EXPERIENCE

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**Teaching Assistant & Marker | Dalhousie University**

- **CSCI 5709 – Advanced Topics in Web Development** *January 2025 – May 2025*  
Assisted in teaching and mentoring a graduate class of 60+ students. Led tutorial sessions on FastAPI and containerized microservices, provided project guidance, evaluated assignments, and supported the professor in managing course delivery and technical instruction.
- **DGIN 5201 – Digital Transformation** *January 2025 – May 2025*  
Guided student teams through the business and management aspects of digital product development. Provided support in developing business canvases, user validation plans, prototype linkage, and evaluation methods. Assisted during weekly labs and team mentoring sessions.
- **CSCI 2210 – Data Structures & Algorithms** *August 2024 – December 2024*  
Performed marking duties including grading assignments, exams, and student deliverables per the syllabus and guidelines. Collaborated with the course instructor on evaluation criteria and supported exam proctoring as needed.

## CERTIFICATIONS

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**AWS Certified Solutions Architect – Associate (SAA-C03)** [certified by Amazon Web Services] ([Link](#))

Gained hands-on experience in designing and deploying secure, scalable cloud infrastructure following AWS Well-Architected Framework principles

**Microsoft Azure Fundamentals (AZ-900)** [certified by Microsoft] ([Link](#))

Developed foundational knowledge of core Azure services including compute, networking, storage, and security through guided labs and use-case applications.

**Google Cloud Digital Leader – GCP Fundamentals** [certified by Google Cloud] ([Link](#))

Explored GCP's core infrastructure, storage, compute, and machine learning offerings, with hands-on in BigQuery, Cloud Functions, and IAM policies.

**Machine Learning** [by Andrew Ng – Coursera/Stanford University] ([Link](#))

Studied supervised/unsupervised learning, neural networks, and model evaluation techniques with implementation using Python and Tensorflow.

## PUBLICATIONS

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**Virtual Lab Assistant with Live-Monitoring System** ([Link](#)).

- Proposed a virtual platform for online labs and interviews with screen sharing, inbuilt compiler, and real-time chat.
- Integrated face verification (MTCNN, FaceNet) and phone detection (Faster RCNN) via webcam for secure sessions.