

RISHI VARMAN R T

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EDUCATION

Dalhousie University, Halifax, NS, Canada (4.0/4.3 GPA)

Jan 2024 – Present

Master of Applied Computer Science

Anna University, Chennai, Tamil Nadu, India (9.06/10 CGPA)

Aug 2018 – Jun 2022

Bachelor of Engineering in Computer Science

TECHNICAL SKILLS

Frontend development: React.js, TypeScript, HTML, XML(Markup), CSS(Stylesheet)

Backend development: Spring Boot (Java), Struts2 (Java), Node.js, Express.js, Flask (Python), Gin (Go)

Database Management: MySQL, BigQuery (GCP), MongoDB, Firebase, Elasticsearch, DynamoDB (AWS)

DevOps: Git, Jenkins, Docker, Kubernetes, Ansible

Cloud-based technologies: Google Cloud Platform, AWS, Microsoft Azure

Other: Kafka, ActiveMQ, Airflow, TensorFlow, Scikit-learn, Numpy, Pandas

WORK EXPERIENCE

Software Engineer, Aeris Communications

Mar 2023 – Dec 2023

- Led the **migration of CDR billing** from Oracle BRM to **GCP**, focusing on cost efficiency through **BigQuery** utilization.
- Managed data processes with **Apache Airflow**, ensuring a seamless migration and integration.
- Enhanced operational effectiveness by optimizing billing systems for various billing schemes (PAYG, PBR, ADBR).

Software Engineer, Ericsson Global Services

Aug 2022 – Mar 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 and resolving issues or bugs.

INTERNSHIPS

Software Engineer Internship, Ericsson Global Services

Feb 2022 – Aug 2022

- Learned **containerization** technologies and assisted in converting user needs into scalable code and APIs, gaining practical experience with the **Quarkus framework**.

Software Developer Training Internship, Zoho Corporation

May 2021 – July 2021

- Developed a **minimum viable product** of a **Railway Ticket Reservation application** that exhibits my creativity, it was accomplished using **Struts2** and **core Java design patterns** which eliminates third-party dependency in the web application using XML mapping that engineers use to design **Zoho's applications**.

Full Stack Developer Internship, Stack Nation

Aug 2020 – Sept 2020

- Worked as a full stack developer on the '**University Management**' project, utilizing the **MERN stack** to manage student records, staff information, and assignments.

Inplant Training, GSC INC

Nov 2019– Dec 2019

- Trained and fine-tuned a **FasterRCNN** model using **TensorFlow Object Detection** API for **vehicle license plate detection** and created a shared library file of the trained **deep learning framework** using **Babel**.

PROJECTS

- Matchify** (Spring boot, MySQL, React.js, Amazon S3, Geocoding API, Mockito) *Jan 2024 – Mar 2024*
- An end-to-end **social media web application** which allows users to match with other users based on their interest similarity and participate as well as host events.
- Public train ticket booking system** (Struts2, Java, MySQL, JavaScript, HTML, CSS) *May 2021 – July 2021*
- A **Struts2** web application for efficient public train ticket booking, featuring **dynamic management** of train and station details through **XML Mapping**, including administrative functionalities.
- E-lab assistant** (React.js, Node.js, Express.js, MongoDB) *Aug 2020 – Oct 2020*
- A **MERN stack web application** which could be used by colleges and staff to conduct online computer lab sessions and tests with features like **screen sharing, inbuilt compiler, live chat** etc.
- Emotion detector** (Flask, Keras, OpenCV, HTML, CSS) *Feb 2020 – Mar 2020*
- A **flask web application** integrated with a trained **CNN model which detects the emotion of a person** through a webcam and provides a quote as well as plays a song based on his emotion.
- Car life-cycle predictor** (Flask, Sklearn Toolkit, Matplotlib, NumPy, Pandas) *July 2019 – Aug 2019*
- A **flask web application** integrated with a trained **Randon Forest Regression model** which **predicts the lifetime of cars** by getting the configuration of the car (Fuel, Kilometers etc.) as the dependent variables

CERTIFICATIONS, PUBLICATIONS AND VOLUNTEERING

Virtual Lab Assistant with Live-Monitoring System

Published in 2022 International Conference on Wireless Communications Signal Processing and Networking

Link: <https://ieeexplore.ieee.org/abstract/document/9767146>

- It proposes a **novel virtual platform** enabling seamless **online lab sessions and interviews**, incorporating features like **screen sharing, an inbuilt compiler**, and **real-time chat** for enhanced collaboration.
- It includes modules containing a **face verification model** using **MTCNN** and **FaceNet**, and an **object detection model** using Faster RCNN to detect phone usage during interviews and exams via webcam.

Microsoft Azure Fundamentals – AZ900 (certified by Microsoft Azure)

Explored, utilized and integrated Azure cloud capabilities alongside my full stack software engineering skillset.

Machine Learning by Andrew NG – Stanford University (certified by Coursera)

Gained expertise in foundational machine learning concepts and algorithms.

Neural Networks & Deep Learning – Deeplearning.ai (certified by Coursera)

Developed proficiency in building and training neural networks for deep learning applications.

Vice President of Multimedia – GET REAL Movement

Working as the **VP of Multimedia** for the Get Real Movement, leading multimedia projects and initiatives to promote inclusivity and awareness while spearheading the creation and distribution of content to enhance the organization's outreach and engagement.

Film Making, Videography, & Content Creation

Experienced **filmmaker** and **content creator** specializing in **directing, cinematography**, and **script writing**, with a focus on the thriller genre. Proficient in creating and editing engaging **travel reels** for social media platforms like Instagram. **Directed four short films** and contributed to over **25 projects**, demonstrating expertise in crafting compelling **visual stories** and bringing creative concepts to life.

My YouTube Channel (Short films): <https://www.youtube.com/@apcreations840>

My Instagram Channel: https://www.instagram.com/_rishivarman/

My Recent Edits: https://drive.google.com/drive/folders/1T_SdijRdpImAdv-ddF66vALJ7DkoKwxh?usp=sharing