

EDUCATION

University of Ottawa <i>M.Eng.in Computer Engineering, GPA: 3.8/4.0</i> Charotar Institute of Science and Technology <i>B.Tech in Computer Engineering, GPA: 3.7/4.0</i>	Ottawa, CA Aug 2023 – April 2025 Gujarat, IN Aug 2019 – April 2023
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SKILLS

Languages: Python, Java, JavaScript, C++, C, Scala, MATLAB Frameworks and Technologies: Spring Boot, ReactJS, Node.js, Flask, Maven, HTML/CSS Databases: MySQL, PostgreSQL, MongoDB, Elasticsearch Cloud Services: AWS (EC2, S3, Lambda, API Gateway, CloudFormation), Azure (App Services, Blob Storage) Tools and Concepts: Docker, Git, Linux, Agile Development, Test-Driven Development (TDD), SDLC	
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WORK EXPERIENCE

JMC Moving <i>Software Engineer (Internship)</i> <ul style="list-style-type: none">Developed an automated job scheduling system using Java, Spring Boot, and Azure, enabling administrators to efficiently assign tasks to employees. The system featured a modular architecture with RESTful APIs for seamless integration, real-time email/SMS notifications powered by Azure Event Grid, and Azure Scheduler for task coordination reducing the employee assignment bottlenecks by almost 70%.Designed and implemented a cost estimation PDF generation system that reduced document handling time by 6-seconds and improved retrieval efficiency by 40% using Azure Blob Storage for secure storage and efficient retrieval.Deployed the system using Docker containers to ensure environment consistency and scalability. Resolved deployment challenges such as container orchestration issues by optimizing Docker Compose configurations and troubleshooting Azure App Services compatibility with Docker images.	Ottawa, ON Sep 2024 – Dec 2024
University of Ottawa <i>Teaching Assistant, SEG 2105 (Software Engineering)</i> <ul style="list-style-type: none">Mentored students on version control with Git/GitHub, mobile app development using Android Studio, and object-oriented programming with Java, Spring-Boot and Firebase.	Ottawa, ON Sep 2024 – Dec 2024
Aarogram Inc. <i>Software Engineer (Full-time, Internship)</i> <ul style="list-style-type: none">Designed and developed a scalable frontend system (MVP Product) to streamline patient prior authorization, achieving HIPAA compliance and integrating data using EHR and FHIR APIs. Implemented backend automation with AWS Cloud Services (EC2, S3, Lambda) and robotic process automation (RPA), resulting in a 22% increase in user engagement, a 40% improvement in operational efficiency.	Vadodara, India Jan 2023 – July 2023

PROJECTS

- VAR: Video Assistant Referee System for Soccer Foul Detection:** Developed a foul detection system utilizing **MViT, ResNet, and Two-Stream CNN** architectures, comparing their performance for spatiotemporal feature extraction. Optimized and customized these models by freezing certain layers, which reduced training time by almost **50%**. Utilized multi-view video analysis and the SoccerNet-MVFoul dataset to improve foul classification accuracy. Followed **SDLC principles** for data preprocessing, model training, and evaluation.
- Data Engineering YouTube Analysis:** Implemented a scalable **ETL pipeline** using **AWS Glue, Lambda**, and **Athena** to process large-scale YouTube data. Stored data in a distributed architecture on **Amazon S3** and visualized insights with **AWS QuickSight**. Emphasized modular design for reusability and scalability.
- Prior Auth Predictor:** Developed a healthcare AI model using pre-trained models (**BERT**) and time-series analysis to predict prior authorization requirements. Improved decision-making speed by following **Test-Driven Development (TDD)** practices and implementing robust classification algorithms.

AWARDS & ACHIEVEMENTS

- uOttHack-6 Hackathon** : Runners-up, 2024
- Geeks-for-geeks problem of the day** : 2nd place (Jan-2024 to April-2024)