

# Muneeb Ansari

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## Skills

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**Languages:** Python, JavaScript, Java, C, SQL

**Technologies:** AWS, Node.js, React, Flask, Git, Jenkins, Splunk, ServiceNow

## Experience

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### 407 ETR

*May 2021 – Present*

#### Software Developer

*Toronto, ON*

- Achieving a 200% increase in quarterly revenue through mobile app channels; from \$200,000 to \$600,000, by migrating users to a new data model and developing APIs for in-app self-service features
- Developing and deploying RESTful APIs to provide 100,000 users with access to in-app billing statements and payment history, using Node.js, AWS Serverless, NoSQL and AWS CloudFormation (IaC)
- Automating UI testing for mobile apps using Mocha, Chai and Behavior-Driven Development (BDD) with integration into Jenkins continuous integration (CI) pipeline for charting and reporting
- Engineering an automated self-healing system to ensure data integrity and seamless domain synchronization using AWS Lambda, CloudWatch Events, and Salesforce REST API.
- Employing Splunk and Amazon CloudWatch for monitoring, debugging, diagnosis, and metric analysis in production

### 407 ETR

*May 2019 – Aug. 2020*

#### Software Developer Intern

*Toronto, ON*

- Improved GIS system performance by 10x by removing bottlenecks using SQL Profiler and implementing server-side caching
- Developed an email notification service in Java Spring Boot for streamlined work-order alerts, increasing completion rates by 14%
- Implemented Apache Camel routes on Enterprise Service Bus (ESB) to consume messages from ActiveMQ topics, leveraging Service Oriented Architecture (SOA) to ensure reliable message routing and integration with on-prem services
- Maintained a full stack asset management web app using Angular, Angular Material, Spring Boot and SQL; featuring comprehensive dashboards, dynamic tables, and interactive maps using Leaflet library
- Built SFDC Lightning Web Components (LWC) for Customer Service Representatives to support account management workflows; leveraging HTML, CSS, JavaScript and Salesforce Flow Builder to automate business processes

## Projects

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### vehicle-maintenance-chatbot | *Python, Flask, React, TypeScript*

- Created an AI chatbot allowing users to interface with a PDF of their vehicle's service manual, receive relevant responses to their queries and view comprehensive instructional video guides for vehicle maintenance tasks
- Designed and developed a responsive and intuitive chatbot interface using React, TypeScript, and Material UI
- Developed a Flask REST API to deliver accurate responses to queries using OpenAI GPT-3.5, Langchain and Pinecone Vector DB
- Leveraged YouTube Data and OpenAI function calling APIs to extract instructions and video segments from a video transcript

### facemask-predict | *Python, Flask, PyTorch, HTML, CSS, JavaScript*

- Implemented a classification model for face mask detection using a convolutional neural network achieving 90% accuracy
- Deployed a Flask REST API to inference the trained model, compute feature maps and return prediction results
- Created a user interface with HTML, CSS, and JavaScript with capabilities to upload images, inference the model, display predictions, and visualize feature maps
- Leveraged PyTorch for data loading, model creation, hyperparameter tuning, and training

## Education

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### University of Toronto

Honours Bachelor of Science, Computer Science

*Sept. 2016 – May 2021*