

TALIF PATHAN

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Education

Rajiv Gandhi Institute of Technology (University of Mumbai)

Bachelor of Engineering (B.E) in Computer Engineering; CGPA: 8.59/10.0

Aug. 2016 – Oct. 2020

Mumbai, India

Royal College of Arts, Science and Commerce

Intermediate (HSC) in Science; Percentage: 72.15%

July 2014 – May 2016

Mumbai, India

St. Xavier's High School

High School (SSC); Percentage: 81.60%

April 2013 – June 2014

Mumbai, India

Experience

Capgemini

Senior Software Engineer

Mumbai, India

Jan. 2023 – Present

- Integrated Python-scripted vehicle simulation with AWS IoT FleetWise for real-time CAN bus data collection on Amazon EC2 launch, alongside a multi-step Redux Toolkit form demonstrating FleetWise integration and utilizing Grafana for data visualization.
- Implemented OTA updates for Capgemini UK using AWS IoT Device Client, IoT Jobs, Lambda, and Amazon S3.
- Developed a vehicle telemetry publisher using AWS Greengrass V2 and MongoDB Realm, syncing data with MongoDB Atlas for the MongoDB team which operated from Paris.
- Architected Generative AI for SE using Amazon Bedrock, implemented backend services with AWS Chalice, reducing manual AWS resource effort by 15%. Additionally, developed RAG-based architecture for Custom LLM Models using Langchain.

Software Engineer

April 2021 – Dec. 2022

- Developed several tabs such as Analytics, Report Incident, AWS IoT FleetWise, and Grafana using React.js and Recharts (charting library) for the Trusted Vehicle automotive solution.
- Built an email notification system for vehicle airbag status changes using Amazon Kinesis Data Streams and AWS Lambda and incorporated the multi-tenancy feature using Amazon Cognito groups.
- Developed the Report Incident tab to depict a vehicle being dispatched to the incident site using the Mapbox API (an AI-powered location technology) together with the Accordion component from the Material UI library.

Projects

Blockchain Enabled E-Voting System / C#, MySQL, HTML5, CSS3

June 2019 – July 2020

- Users were able to register, log in, and cast votes thanks to this software solution. To review ledgers, check results, and other things, built the admin panel.
- Using the SHA-256 algorithm, both the data at rest and the data in transit were encrypted.

Spell Checker and Corrector / Python, Tkinter, NLTK

March 2020

- Developed a spell-checking and correcting system using Python integrated with natural language processing (NLP's NLTK package).
- Jaccard distance and Edit distance were the two techniques employed for the same.

Educational Website / HTML5, CSS3, JS, PHP, and MySQL

August 2018

- Created a website for educational use that offers details on the curriculum, question papers from previous years.
- Integrated YouTube videos on certain intricate topics using iframes.

Certifications

- AWS Certified Solutions Architect - Associate
Amazon Web Services
- AWS Certified Cloud Practitioner Amazon Web Services

Achievements

- THE SUPER TEAM AWARD
- XTRAMILE AWARD

Publications

- [1] Talif Pathan*, Anita Lahane, Prathmesh Potdar, and Junaid Patel, "[Blockchain technology based e-voting system](#)" ITM Web Conf. Volume 32, 2020 - International Conference on Automation, Computing and Communication 2020 (ICACC-2020).
 - [2] Talif Pathan*, Alka Soun, "[Loan distribution and prediction system using supervised machine learning](#)" International Journal of All Research Education & Scientific Methods, (IJARESM), ISSN No: 2455-6211, in the current Issue, Volume 11, Issue 10, October- 2023.
- [Accepted. To be published soon.]**

Technical Skills

Programming Languages: C, Java, Python, JavaScript

Frameworks / Libraries / Runtimes / Databases: LangChain, NumPy, React, Node.js, Express.js, MongoDB, AWS, Git

Other Technologies: HTML5, CSS3

Development Environments and Soft Skills: Visual Studio Code, IntelliJ IDEA, Jupyter, Communication, Problem Solving, Time Management, Teamwork, Adaptability, Leadership