RUSHIL PATEL

+91 7698555685 ⋄ rushilpatel210@gmail.com ⋄ Portfolio ⋄ LinkedIn ⋄ GitHub ⋄ LeetCode ⋄ CodeForces

EDUCATION

Institute of Technology, Nirma University (Ahmedabad, India) Sep 2022 – May 2026
Bachelor of Technology, Computer Science and Engineering(CSE) with Minor in Cyber Security GPA: 8.88/10

PROFESSIONAL EXPERIENCE

Technotery Jun 2024 – Jul 2024
Assistant Software Engineer - Trainee
- **Collaborated** in a cross-functional team to design and build a **voice-command-based** web application for finance management, similar to Splitwise, enhancing user interaction with **speech recognition** for a more seamless user experience.
- Utilized **ReactJS** with **react-speech-recognition** for **speech-to-text** functionality on the frontend and implemented backend services using **NodeJS with ExpressJS**, **increasing efficiency by 65%** compared to traditional methods.
- Integrated **Amazon Bedrock (AWS)** for **NLP-based** extraction of key information from user commands, **Amazon DynamoDB** for **scalable data** management, and **AWS Lambda** for **serverless deployment**, reducing overhead and streamlining maintenance.

TECHNICAL STRENGTHS

Programming Languages	C++, Java, JavaScript, C, Python, HTML
Database Languages	SQL, MongoDB, DynamoDB, Firestore
Frameworks and Libraries	Scikit-Learn, TensorFlow/Keras, NodeJS, ReactJS, ExpressJS, Spring, Swing
Cloud Services	AWS Bedrock, AWS Lambda, Firebase Auth, Amazon API Gateway, Render, Vercel
Relevant Course Work	Advanced Java, ML, DSA, OOP, DBMS, Full Stack Web Dev, OS, Computer Network, Maths

RELEVANT PROJECTS

Intrusion Detection System using ML (Kaggle) Oct 2024 - Nov 2024
- Developed and optimized multiple machine learning models, including **CNN, XGBoost, and Decision Trees**, for **network intrusion detection** on the **UNSW NB15** and **KDD Cup** datasets, applying models to both **multiclass** and **binary classification** tasks.
- Achieved **99.67% accuracy in multiclass** classification on the UNSW NB15 dataset using a **CNN**, significantly enhancing detection accuracy and showcasing expertise in **deep learning for cybersecurity**.
- **Technologies Used :** Python, Scikit-Learn, TensorFlow/Keras

Civic Pulse (Github) (Live Demo) (Video) Jun 2024 - Aug 2024
- **Developed** a solution connecting technology with **real-world business needs** by leveraging **Firebase**, **Google Cloud Platform (GCP)** and **Gemini API** to automatically route community issues to the appropriate departments for efficient resolution.
- **Technologies Used :** ReactJS, ExpressJS, NodeJS, Firebase, Google Cloud Platform, Render, Vercel

FitFreak (Github) (Live Demo) Feb 2024 – Apr 2024
- **Led** a team in developing a **Full-Stack Fitness Tracker** using the **MERN** stack, with **State Management** and graphical workout representation. Utilized **React Router** for navigation and **Cookies** for persistent user data.
- **Technologies Used :** ReactJS, ExpressJS, NodeJS, MongoDB, Render, Vercel

Cricket Player Statistics Management System (Github) Nov 2023 – Dec 2023
- **Partnered** in the development of a **C++** application utilizing **data structures (Linked List, Priority Queue, Maps)** and integrated JSON for data storage to streamline cricket player statistics management.
- **Technologies Used :** C++

HACKATHONS

Ranked 352nd out of **74,846 registered teams** in **Amazon ML Challenge Hackathon 2024.**
Achieved top-50 ranking in **Smart India Hackathon 2024** (College Level).
Secured top-10 ranking out of approximately **50 teams** in the **HACKNUTHON 4.0 by CSI, Nirma University.** (Devfolio)

ACHIEVEMENTS

Selected for **Amazon ML Summer School 2024**, ranking in the **top 3000** out of **approximately 85,000 participants.** (Certificate)
Achieved an **All India rank of 68th** in Round 2 of the **Coding Track by Naukri Campus.**
Attained Pupil Rank (Peak Rating : 1384) on CodeForces. (CodeForces)
Ranked 887 out of **34,718** participants in **Codeforces Round 974 (Div. 3) contest.**
Core Member of **Google Developer Group's Cloud/CyberSecurity Team (Nirma University).**
Achieved 4th, 7th & 11th position in three coding contests at **Nirma University** out of **238, 222 & 236 participants** respectively.

CERTIFICATES

Advanced Learning Algorithms (Coursera, DeepLearning.AI, Stanford) **(Certificate)**
Supervised Machine Learning: Regression and Classification (Coursera, DeepLearning.AI, Stanford) **(Certificate)**
JP Morgan Chase Software Engineering Job Simulation (Forage) **(Certificate)**
1x Academic Excellence Certificate & 3x Certificate of Scholar (Nirma University)