Tanmay Raut

B. Tech in Computer Engineering

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EDUCATION

Bachelor of Technology in Computer Engineering   **Jun 2020 – Aug 2024**
SVKM's Narsee Monjee Institute of Management Studies   CGPA : 8.2

TECHNICAL EXPERIENCE

Java Developer Intern   **Jan 2024 - May 2024**
Mobicule Technologies Ltd   *Pune, India*
- Architected and developed a Bus Ticket Booking WebApp, emphasizing backend architecture and server-side scripting to ensure seamless functionality and data flow.
- Spearheaded backend server development for the MCollect Project at Mobicule Technologies, optimizing data handling and system performance.
- Enhanced login security and resolved input validation issues while optimizing backend workflows for improved efficiency.

Android Developer Intern   **May 2023 - June 2023**
Shree Tube mfg.co.pvt.ltd   *Aurangabad, India*
- Developed the Shree Tube mobile application during an internship, enabling efficient order placement and real-time tracking for seamless user interaction.
- Integrated live status updates and progress monitoring, delivering instant insights into the 7 manufacturing stages, enhancing user experience and operational transparency.

Software Engg. Virtual Experience   **Apr 2023 - May 2023**
JP Morgan Chase and Co.   *Aurangabad, India*
- Fixed the broken client data feed script and TypeScript files in the repository by implementing necessary changes to interface with a stock price data feed.
- Enhanced graph functionality using the Perspective API by implementing a ratio between two stock prices, fixed bugs, and contributed improvements to the open-source community.

Software Engg. Virtual Experience   **May 2023 - Jun 2023**
Goldman Sachs   *Aurangabad, India*
- Used Hashcat to crack MD5-encrypted passwords, identified security vulnerabilities, and recommended stronger password policies, including adopting secure algorithms like SHA-256, to enhance overall system security.

PROJECTS

Social Media App
- Developed a full-stack social media app using MongoDB, Express, Node.js, and React, enabling user registration, login, post creation with images, likes, and add friend functionality.
- Integrated Redux for state management, JWT for secure authentication, and Multer for image uploads.

Journal App
- Developed a secure Journal App using Spring Boot, enabling creation and management of journal entries with MongoDB, JWT authentication, and Spring Security.
- Integrated an external API, implemented email notifications to enhance user engagement, and ensured efficient, clean code using Lombok.

Predicting Admission into Foreign Universities
- Conducted exploratory data analysis to identify 5 key factors relevant to the project and pre-processed the dataset by removing irrelevant columns.
- Enhanced model performance by pre-processing data and applying cross-validation, selecting Random Forest to achieve 82% accuracy in predicting acceptance likelihood into target universities.

SKILLS

Programming Languages	JavaScript, Java
Web Development	React.js, Node.js, MySQL, MongoDB
Frameworks	Express.js, Spring Boot, Spring Security
Tools/Technologies	AWS Cloud, JWT Authentication, Git/GitHub
Soft Skills	Communication, Leadership, Teamwork

CERTIFICATIONS

AWS Certified Cloud Practitioner CLF-C02

- Achieved AWS Certified Cloud Practitioner certification, demonstrating expertise in AWS services like EC2, S3, and Lambda, as well as cloud scalability, high availability, disaster recovery, and security practices including IAM.