Maitri Gohil

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EDUCATION

University of Massachusetts Amherst   **Expected Graduation: December 2024**
Masters of Science in Computer Science   GPA: 3.74/4.0
Coursework: Cyber Effects, Systems Defence, Digital Forensics, Adv. Information Assurance, Game Programming, Machine Learning.

DJ Sanghvi College of Engineering, University of Mumbai, India   **2016 - 2020**
Bachelors of Engineering, Major - Computer Engineering   GPA: 8.74/10.0
Coursework: Adv System Security, Software Engg., Computer Networks, Web Design, Cloud Computing, Data Structures & Algorithms.

SKILLS

Programming: Java, Python, C, C++, ReactJS, JavaScript, HTML5, CSS3, Bash Script, MySQL, Oracle
Frameworks: Spring Boot, Frappe, Junit, Mockito
Pentesting Tools (Cybersecurity): Kali-Linux, Netcat, Nmap, Metasploit, Nessus, Ettercap

PROFESSIONAL EXPERIENCE

J. P. Morgan Chase & Co.

Software Engineer II   (Full Stack – Java, ReactJS)   **January 2023 – August 2023**

- Designed a comprehensive Report framework for migrating 20+ reports, downloadable in csv & xslx formats. Empowered users to generate reports (on-demand or scheduled) with 100+ headers and >500k records, achieving response times under 1 sec.
- Optimized this framework for superior performance, scalability, and adaptability, allowing easy addition of new reports with minimal code adjustments.
- Engineered an interactive dashboard consisting of 5 sub-utilities: visualize server data using charts, enabling real-time health monitoring of APIs, MQ health via Grafana Dashboard, SQL querying console, and intelligently display interface statuses.
- Implemented dynamic UX components that adapt based on received data, enhancing visual representation and analysis.
- Supported new team members with software setup and access, providing comprehensive explanations of application functionalities for a smooth onboarding experience.

Software Engineer I   (Full Stack – Java, ReactJS)   **August 2020 – January 2023**

- Developed a report generation module, seamlessly integrating it with legacy web application, providing users flexibility to add data filters, which parsed >100k records from multiple data sources.
- Enhanced web application features in alignment with business requirements, ensuring optimal user experience and satisfaction.
- Proactively identified and resolved 50+ bugs in legacy application during testing phases, prioritised with tech stakeholders, and prevented production escalations. Improved code quality and reliability, enhancing overall system performance by ~20%.
- Migrated Legacy UI code from React Class-based components to Functional-based components, optimizing code by improving readability, re-usability, and reducing code redundancy by ~50%.
- Reacted promptly to fix production defects, conducted in-depth code analysis, addressed reconciliation issues to bridge gap between data source teams, and established deployment-ready Jules pipelines, ensuring a seamless workflow.

PROJECTS

Capture the Flag for Network Analysis   **February 2023 – May 2023**
This CTF was created as a part of the project submission for Advanced Digital Forensics Systems. Various attacks were carried out on a network and the trace files contained hidden flags which can be found using various tools for network analysis.

Carpe (Force for Good, JP Morgan & Chase)   **December 2020 - August 2021**
This portal, created for a Waste Management NGO, automates all the computations required, logs complaints and provides live analytics, making it simpler to generate reports, display progress and the number of houses covered, across various centres in Maharashtra state.

CERTIFICATIONS & ACHIEVEMENTS

- CISE (Certified Information Security Expert) certification.
- AWS Certified Cloud Practitioner (Expires: March 2026)

ADDITIONAL INFORMATION

Chapter Publications
- Springer Media: Recent Challenges in Internet of Things (link)
- IGI Global: Blockchain and its Applications in Healthcare (link)

Leadership Activities
- Finance Lead for Hack(H)er413 student organization at UMass   2023 – 2024
- Mumbai Tech Lead in SEP Engineer Committee at JP Morgan Chase & Co.   2021 – 2022
- Vice Chairperson-Finance of ACM (Association for Computing Machinery) at undergraduate college   2018 – 2019

Social Work
- Volunteered in college social committee (NSS – National Service Scheme)   2018 – 2020
- Active member of NGO - IDF (Indian Development Foundation)   2016 – 2019