Tuhina Maji

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TECHNICAL SKILL

- Programming Languages — C++, C#, F#, LINQ, Python, Java, SQL, Ruby, Node, Typescript, JavaScript, React, Angular, HTML, CSS
- Tools/Libraries — AWS, CosmosDB, Visual Studio, VSCode, IntelliJ, JUnit, Jenkins, GitHub, Maven, Tableau, Docker, Kubernetes PowerBi, Jupyter, Redis, Postman, Splunk, SonarQube, Swagger, Confluence, Jira, Slack, Azure Devops
- Frameworks/OS — .NetCore WebAPI, MVC, Spring, Pandas, EntityFramework, Linux, Unix, MacOS, Windows
- Methodologies — Software Development Life Cycle, Agile, Waterfall, SCRUM

EXPERIENCE

CloudBees | Project: VSCode CDRO Manager   San Jose, CA
Software Engineering Intern   June 2023 – September 2023

- Engineered and published a VSCode plugin using **TypeScript** and **JavaScript** for seamless, real-time server interaction with the CI/CD servers significantly increasing the DevOps engineering team productivity by 1.5 times.
- Led the plugin development, collaborating with stakeholders to create a detailed **Business Requirement Document** and 6 key milestones utilizing **Confluence**, **Jira**, and **Slack**, improving project visibility, and cutting development time by 20%.
- Presented the product in 4 sprint-based demos, incorporating feedback, and conducted a live presentation to an audience of over 200 individuals, earning recognition from senior management.
- Collaborated with a team member to integrate **SonarQube** using **JaCoCo** coverage tool across existing projects, resulting in a 15% improvement in overall code quality.

Fiserv | Project: BillMatrix Platforms for ConEd   Pune, India
Senior Software Developer   November 2019 – March 2022

- Proactively identified a crucial system gap and architected a robust technical solution involving Azure services, **RESTful** APIs, and SQL jobs mitigating a potential revenue loss of up to $900K per billing cycle.
- Initiated and crafted a **Cosmos DB** wrapper library using **C#** and **.Net Core** framework, optimizing **NoSQL** database interactions and increasing team efficiency across various cross-functional projects saving up to 14 hours of work per project.
- Crafted an application utilizing **multi-threading**, asynchronous programming, and SQL job configurations for rapid and accurate processing of **ACH** transaction files, achieving a throughput of up to 1 million transactions in under 15 minutes.
- Collaborated with leadership to develop a **data-driven** dashboard using Azure dashboard and **Kusto** queries, increasing system performance visibility by 30% and cutting critical failure response time by 50%, resulting in reduced disruptions for end users.
- Enhanced the **payment** processing APIs, leveraging connection pooling for efficient concurrent use of **HTTP** client connections, resulting in a 20% reduction in request throttling.
- Recognized for conducting a workshop on **Web API** and **MVC** frameworks for over 20 developers, also emphasizing **test-driven development(TDD)**, code quality improvement, and fostering a culture of continuous learning.
- Managed team backlog and sprint planning using **Azure DevOps**, leading to a 15% improvement in project visibility.

Cybage | Project: TheHub - Employee Management System   Pune, India
Software Engineer   August 2016 - November 2019

- Delivered a streamlined web application for efficient processing and management of the organization's employee data, utilizing **SQL**, **Java** and **Spring** framework and a **React**-based UI, resulting in a 40% reduction in data processing time and enhancing operational efficiency.
- Researched and implemented **Redis** cache as the optimal caching mechanism, reducing API response time from 2.5 seconds to under 1 second.
- Implemented a **Splunk**-based log analysis system, significantly enhancing system issue identification and resolution efficiency by 30%.
- Introduced **Swagger** for API documentation, enhancing API usability and reducing documentation effort of developers by at least 2 hours.
- Implemented unit testing best practices using **JUnit** framework, raising code coverage by 37%.

ACADEMIC PROJECTS

Project: New York Taxi Trips Analysis

- Streamlined the **ETL** process using **Python** achieving a 40% reduction in data processing time and enhancing data quality by automating validation checks, resulting in more accurate and timely business insights.
- Developed a comprehensive **star schema** for 12.2 million taxi trip data using **SQL** significantly enhancing query performance resulting in a 20% reduction in data retrieval times and enabling real-time data analysis.
- Visualized taxi trip data analytics in **Tableau**, presenting trends, patterns, and insights into taxi operations over time and by geographical areas suggesting a 15% growth in market share by optimizing service offerings and enhancing customer experience.

Project: Resume Optimize**r**

- Implemented resume data extraction using **Python** and PyPDF2 library, reducing processing time by 30%, and integrated **OpenAI** embeddings, Chroma DB and **Langchain** for text conversion and accurate fact extraction from user resumes, improving resume-job description alignment by 25%.
- Pioneered **prompt engineering** techniques, delivering a 40% surge in precise fact extraction from user resumes.

EDUCATION

Santa Clara University   Santa Clara, CA
MS in Information Systems   June 2024
GPA: 3.8

- Achievements: Teaching Assistant for Object Oriented Programming (Java), President at Product Club, Dean's Honour List
- Relevant coursework: Java, SQL, Python, Natural Language Processing, Machine Learning, Applied Cloud Computing (AWS, GCP)