Rajat R Gedam

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SKILL SET

Languages: C/C++, Java, Python, C#. NET, JavaScript, HTML, CSS, LESS, TypeScript, SQL.
Cloud Platforms and Technologies: Azure, AWS, TeamCity, Kibana, Docker, Kubernetes, GitHub.
Databases: MySQL, MongoDB, PostgreSQL, Cassandra.
Frameworks/Tools: Angular, React, Microsoft SQL Server, Jira, Git, Swagger, Postman.

EXPERIENCE

Software Lead   **May 2022 - Present**
School for Marine Science and Technology, UMassD | *SQL, Microsoft Power Platform*   *Dartmouth, MA*

- Developed and deployed a **PowerApps** form to streamline degree tracking process for 100+ students, eliminating staff workload for data entry by 70+% in collaboration with multiple stakeholders.
- Constructed a **MS SQL Server relational** database and programmed 20+ **SQL** stored procedures.
- Spearheaded the end-to-end ownership of the software development life cycle – design, development, quality assurance, and deployment**,** increased data accuracy by 60%.

Senior Software Engineer   **Nov 2018 - Aug 2021**
Yardi System Inc. | *AGILE, REST, Swagger, C# .NET, Azure, NodeJS, Angular*   *Pune, India*

- Streamlined development by creating **REST** APIs in C# .NET, reducing integration time by 50%, testing 15+ APIs with **Postman**. Revamped web pages, refactoring a multi-stage web wizard for improved user experience.
- Overhauled cloud web services, consolidating .NET backend to achieve 80% **code reuse** across 3 features, optimizing resource utilization.
- Automated data migration from legacy code using C# .NET module, saving 40+ hours/month in manual work.
- Enhanced reliability by configuring API exception handling with **Elasticsearch** and **Kibana**, resolving 40% of unresolved issues across all environments.
- Produced technical documentation in **Confluence** for 26+ engineers, streamlining tasks using **JIRA** for efficient management.
- Collaborated with a global **Agile** team in Santa Barbara for daily scrum, backlog refinement, sprint planning, and mentored a team of 6 interns in the implementation of a new product feature.

PROJECTS AND COURSEWORK

Cancer Diagnosis System (Capstone) | *Python Flask, Microservices, React*   **Jan 2023 – Aug 2023**

- Designed and implemented 3 scalable **Microservices** that enabled Dataset Ingestion, Data Preparation, Algorithmic Logic with Performance Metrics Plotting, improved system reusability by 30%.
- Architected a machine learning microservice with **Strategy** pattern and Data Preparation service using **Decorator** pattern. Containerized, deployed, and exposed the APIs via **Docker**, built UI with **React** Framework.

Enterprise Cloud Systems | *AWS S3, Lambda, Kinesis, Glue, Athena, Rekognition*   **Sep 2022 – Dec 2022**

- <u>Twitter Sentiment Analysis</u>: Created data visualization stack for sentiment analysis on twitter data using AWS **Lambda**, **S3**, **Athena**, Kinesis, Glue and **QuickSight**.
- <u>IOT Real time data analytics ETL pipeline</u>: Extracted time series data from IoT devices using AWS **IoT Core**, **Kinesis** Data Firehose, S3, AWS Lambda, Cognito, and CloudFront. Used IaaC based CloudFormation to deploy the stack.
- <u>AI-Powered Health Data Masking service</u>: Deployed protected health information data extraction and identification (PHId) service using **Amazon API Gateway**, AWS Lambda and Amazon **Rekognition**.

Chicago Crimes Visualization | *JavaScript D3, HTML, CSS*   **Sep 2022- Dec 2022**

- Plotted visualizations with D3.js showcasing a 45% increase in crime between 2019-2022, and a 13% decrease in crime rates during the pandemic.
- Coded and deployed 3 visualizations with **GIT** version control, enhancing project accessibility via GitHub Pages.

EDUCATION

University of Massachusetts, Dartmouth   **Sep 2021 – Aug 2023**
Master of Science, Computer Science   **3.7 / 4.0**
Coursework: Software System Design, Algorithm Design, User Interface Techniques, Design Patterns
Pune Institute of Computer Technology, India   **Aug 2014 – Jun 2018**
Bachelor of Engineering, Computer Engineering   **3.6 / 4.0**