

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, Confluence, Git, Swagger, Postman.

EXPERIENCE

Software Lead

May 2022 - Present

School for Marine Science and Technology, UMassD | *SQL, React, C#. NET*

Dartmouth, MA

- Developed and deployed a **web** 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 Systems 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

- Twitter Sentiment Analysis: Created data visualization stack for sentiment analysis on twitter data using AWS **Lambda, S3, Athena, Kinesis, Glue** and **QuickSight**.
- IOT Real time data analytics ETL pipeline: Extracted time series data from IoT devices using AWS **IoT Core, Kinesis** Data Firehose, S3, AWS Lambda, Cognito, and CloudFront. Used IaC based CloudFormation to deploy the stack.
- AI-Powered Health Data Masking service: 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