

PRAJVALA SONAWANE

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EDUCATION

Master of Science in Computer Science, State University of New York at Buffalo - CGPA 3.70 / 4.0 Aug 2021 – Feb 2023

- Coursework – Analysis of Algorithms, Machine Learning, Reinforcement Learning, Distributed Systems, Operating Systems, Pattern Recognition, Database Models and Query Languages, Blockchain Application Development
- Presented a [project](#) that was in the top 45 out of 550 projects, to sponsors and judges from the industry as part of [CSE-Demo Days](#) held at University at Buffalo

Bachelor of Engineering in Computer Engineering, University of Mumbai - CGPA 3.46 / 4.0 July 2013 - May 2017

- First place: Technical paper presentation on “Mobile Based Context E-store Offers Recommendation System”

SKILLS

Web & Backend Development: Java, Spring Boot, Node JS, JavaScript, TypeScript, Mocha, Python, SQL, GraphQL, REST APIs, HTML, CSS
Infrastructure & Tools: Docker, Git, Jira, SQL Server, Postgres, MongoDB, Microsoft Azure Cloud Services, Grafana, Wireshark
Microsoft Certifications: Azure Developer Associate (AZ-203), Azure Fundamentals (AZ-900), Programming in C# (70-483)

PROFESSIONAL EXPERIENCE

Software Engineer, JerseySTEM, New York, United States Nov 2023 - Present

- Implementing process automation through Selenium and Python to enhance efficiency.
- Overseeing code repositories and deployment through Gitlab, while actively engaging in Agile project contributions by utilizing Jira for seamless task management, ticket logging, and progress monitoring.

Software Engineer II, iMedia Brands Inc, New York, United States March 2023 - Oct 2023

- Developed a high-performance advertisement server in Java, adhering to IAB Open-RealTimeBidding standards (VAST protocol), capable of handling 3000+ ad requests per second.
- Improved ad serving latency by 20% via caching mechanisms using Aerospike, as well as load balancing with Nginx.
- Implemented containerization with Docker, error handling, logging, and unit tests in JUnit, Sinon-Chai, resulting in a 15% reduction in critical system failures. Actively engaged in code reviews.
- Collaborated across teams to design and integrate REST APIs and web services using SpringBoot and Node.js, ensuring seamless frontend and backend integration.
- Created interactive user interfaces initially with Angular, later transitioning to React for data, metrics, and reports presentation.
- Proficient in network traffic monitoring and analysis using tools like Wireshark and tcpdump to ensure optimal performance.
- Employed Grafana for data and infrastructure monitoring, and managed code repositories using BitBucket.

Technical Consultant II, Microsoft, Hyderabad, India July 2017 - July 2021

- Developed solutions within Microsoft Dynamics 365 Customer Engagements at Microsoft India Global Delivery.
- Created features for visa application management, encompassing creation, updates, and cancellation requests, as well as handling linked entities and sub-entities vital to the process.
- Engineered a robust C# backend service that seamlessly validated application requests by integrating with 3rd party APIs.
- Architected an integration framework in C# utilizing the .Net framework, enabling comprehensive business logic via Azure Logic Apps, Service Bus, Event Grid, API management, Azure functions, and Microsoft Power Platform.
- Enhanced efficiency by leveraging Selenium Grid, facilitating parallel execution of scripts on 12 interconnected nodes through a hub, achieving a remarkable 12-fold speed increase.
- Experienced in writing Stored Procedures, Triggers, Views, Indexes along with query optimization in MS SQL Server
- Good knowledge of Object-Oriented Analysis, Design and Development and Model View Controller (MVC) architecture.
- Extended the EasyRepro Framework to accommodate the transition from the classic to UCI version of Microsoft Dynamics 365, automating 300 regression test scripts and reducing human intervention and errors.
- Orchestrated events that led to a significant 15% boost in employment satisfaction, providing mentorship to new team members and successfully leading teams.
- Refined team communication via scrum meetings enabling 100% on-time delivery of engagements with up to 98% customer satisfaction. Delivered 6 releases of an engagement following agile methodology over a period of 1.5 years.
- Honored with SPARK Award (2021), SPOT Award (2019), and Best Team Awards (2018, 2019) for outstanding contributions.

PROJECTS

Quote Generator – Multi-node Distributed System

Utilized the RAFT Consensus algorithm to construct a web application with a multi-node distributed system backend, incorporating Node.js, HTML (EJS), REST APIs, MongoDB, and Docker containerization. Ensured fault tolerance through data consistency and managed communication via UDP sockets.

Solving Sudoku Using Image Detection and Deep Learning ([GitHub](#))

Developed a Python project to solve Sudoku from input images, which involved preprocessing by cropping and binarization. A deep neural network classified, transformed digits, and a second network achieved 99% accuracy in solving the Sudoku.

Angel Locks – Blockchain Application for Hair Donation ([GitHub](#))

Developed a decentralized blockchain app with Node.js, HTML, CSS, JQuery, and Ajax. Solidity smart contract on Remix IDE, validated transactions via MetaMask. Data stored on blockchain for security, while off-chain data in MongoDB. Deployed contract on Infura and app on Heroku and AWS.