

## 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

- Designing and creating microservices for optimal code execution and maintenance.
- Utilized webhooks to seamlessly integrate Google Apps scripts with Python code on GitLab platform.
- Enhancing efficiency through the implementation of process automation using Selenium and Python.
- Managing code repositories and deployment via Gitlab, actively participating in Agile tasks through Jira.

**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 interface 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.