Shreyas Bhupesh Makde

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Senior Software Engineer with 11 yrs in distributed systems, C# .NET, Python, Node.js frameworks and AWS. Skilled in troubleshooting, process optimization, and data-driven solutions that improve safety, efficiency, and reliability. Experienced in cross-functional collaboration, delivering quality solutions in complex environments.

Technical Skills

Back-end: Python, C# .NET, Java, Node.js, .NET Core, Spring Boot, Flask, Express.js, REST APIs, SQL Server, PostgreSQL, Stored Procedures, Distributed Systems, Data Pipelines	**Front-end**: React, Angular, Vue.js, Vite, React Native, TypeScript, JavaScript (ES6+), Ember.js, Bootstrap, TailwindCSS, Webpack, jQuery, ESLint, Axios Routing, Jest
DevOps & Tools: Docker, Kubernetes, GitHub Actions, CI/CD, Release Pipelines, Datadog, ELK Stack, Webpack Build Systems, Playwright, Jest/RTL, Shell Scripting, Observability, Automated Testing	**Project Management**: Agile-Scrum, JIRA, ServiceNow, SourceTree, Technical Mentorship, Cross-functional Collaboration, Strategic Planning, Release Management, Performance Optimization
Cloud: AWS (S3, EC2, Lambda, RDS, Bedrock), Azure DevOps, CloudFormation, SQL Databases, Linux Integrations, Cloud Security, Platform Engineering	**AI / ML**: Generative AI, Personalization, Scikit-learn, Pandas, NumPy, A/B Testing, UX Metrics, Data-driven Optimization, Vector Search, Recommendation Systems

Certifications

AWS Certified DevOps Engineer – Professional Feb 2023 | **AWS Certified Developer** – Associate Jan 2023

AWS Certified Cloud Practitioner Jun 2021 | Teals Program Award for **Volunteer Teaching** Year 2018-2019

Work Experience

Senior Software Engineer @ Tyler Technologies   (**Promoted to AI/ML Team**) May 2025 – Present

- ❖ Applied **Python NLP sentiment analysis** on CRM AppDynamics data to identify churn causes for client retention.
- ❖ Used Python in AWS Lambda & SageMaker to automate sentiment analysis, integrated with **Bedrock & OpenAI KBs**.
- ❖ Optimized Python **Pandas dataframes** and queries, delivering faster reporting and 75% stronger analytics.
- ❖ Documented reusable Python libraries and cloud frameworks in Confluence, ensuring adoption and consistency across teams.
- ❖ Enhanced developer experience via CI/CD and **Python/NumPy workflows**, reducing build/test time for multiple teams.

Software Engineer @ Tyler Technologies   Jan 2020 – May 2025

- ❖ Delivered **15+ full-stack features** using **C# .NET and MVC** and Angular/Vue.js, improving workflows across 3 modules.
- ❖ Migrated 25+ front-end views and 10+ APIs to **Vue.js** and microservices, reducing response times by ~80%.
- ❖ **Guided a team of 3** engineers in converting legacy trip-tracking software to modern .NET Core, improving scalability.
- ❖ Led TFS-to-Git migration of 9 legacy projects, preserving history and enabling modern branching for 4 teams.
- ❖ **Mentored onboarding** of interms & contractors for Student Transportation Platform across AWS, Git, and CI/CD.
- ❖ Configured Datadog logging to monitor production in real time and improve performance through actionable insights.
- ❖ Integrated **AI-driven tools into .NET projects**, mentoring engineers and accelerating development across teams.
- ❖ Coordinated front-end and API migration across 3 teams, ensuring delivery of **Vue/TypeScript features** on time.
- ❖ Built Advanced Fleet maintenance in .NET and Vue.js on AWS for student transportation with automated work orders.
- ❖ Managed client and **SQL databases** using the AWS console and deployed via **GitHub Actions** and **Azure Pipelines**.

Software Engineer @ DISA Global Solutions   Jan 2017 – Dec 2019

- ❖ Built **10+ full-stack features** using SQL Server, ASP.NET (Web Forms/MVC), and Ember.js for enterprise HR systems.
- ❖ Refactored 15-year-old Classic ASP/VB system to reduce maintenance effort and improve scalability.
- ❖ Developed Rest-APIs and integrated external services like **Authorize.NET and Microsoft Great Plains** via JSON/XML.
- ❖ Worked in Agile with JIRA, Bitbucket, and Git; took part in sprints, stand-ups, and requirement reviews.
- ❖ **Conducted interviews**; collaborated with BAs and product owners to meet acceptance criteria.
- ❖ Modernized HR systems by migrating to **Ember.js**, improving developer workflows and reducing onboarding time.
- ❖ Improved SQL and API performance across trading modules, accelerating real-time risk insights and analytics.

Graduate Teaching Assistant @ University of Houston, Clear Lake   Jan 2016 – Dec 2016

- ❖ Taught iOS app development using Xcode, Swift, Objective-C, Core Data, and SQLite to graduate students.
- ❖ Led instruction on database design fundamentals, helping undergraduates build relational schema from scratch.
- ❖ Developed cross-platform features and tested OS-level integration using Objective-C and Xcode tools for iOS/macOS.

Web Developer @ University of Houston, Clear Lake   Jul 2015 – Dec 2015

- ❖ Maintained department website; built and validated student application forms with custom logic and auto-notifications.

Projects

AI model context development via AWS Bedrock and SageMaker @ Tyler Technologies

- ❖ Used Microsoft Dynamics 365 data to analyze client feedback and issues to avoid client attrition.
- ❖ Designed data-driven insights and monitoring via Matlotlib data visualization to improve customer retention.

Traversa: A Tyler Student Transportation App (Vue.js + Angular) @ Tyler Technologies

- ❖ Contributed to Angular, Vue.js, jQuery, Razor (front-end); ASP.NET (back-end); and real-time monitoring via Datadog.
- ❖ Worked on K–12 student transportation platforms used by thousands of schools, supporting education-focused SaaS delivery.

DISAWorks: Large-Scale Legacy Modernization & UI Migration (Ember.js): @ Disa Global Solutions

- ❖ Worked as a full-stack developer in maintaining a three-tier legacy app, with ongoing features, bugs, and hotfixes.
- ❖ Migrated the legacy app to an Ember.js application using Ember CLI, and built a clean, test-oriented front-end for DISAWorks.

SPZM Broker @ University of Houston, Clear Lake

- ❖ Developed **trade signal modules** using C# and Amibroker APIs, enabling real-time strategy testing and portfolio adjustments across high-frequency equity datasets

Education

Masters in Computer Science @ University of Houston, Clear Lake   GPA: 3.57 (/4)   Dec 2016
Bachelors of Engineering in Electronics @ YCCE, Nagpur University   GPA: 6.53(/10)   Jul 2014

Extra-Curricular

Microsoft TEALS Volunteer Teacher @ TEALS – Computer Science in Every High School 2018-2019
- ❖ Volunteered to teach AP Computer Science to high school students, focusing on Java programming.

Orientation Leader @ University of Houston, Clear Lake   May 2015 – Dec 2015
- ❖ Completed a leadership retreat focused on public speaking and hospitality; led student orientation and ice-breaker activities.

Student Government Association Rep @ University of Houston, Clear Lake   Feb 2015 – Dec 2015
- ❖ Represented CASSA in student government; organized cross-cultural engagement events and led campus-wide initiatives.