KAUSTUBH BADRIKE

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Software Development | Machine Learning | Data Science

CORE COMPETENCIES

- Languages: Python, TypeScript, Java, C#, JavaScript, C++, Go, SQL, PL/SQL, HTML, CSS
- Frameworks: .NET, Django, Angular, React, numpy, pandas, scipy, Node.js, scikit-learn, jQuery
- Tools: MongoDB, Azure, RESTful API, git, Docker, GitHub, CI/CD, Jira, Linux, MySQL, PostgreSQL, Spark, Hadoop

PROFESSIONAL EXPERIENCE

Amazon, Seattle   August 2025 – Present
SDE II

- Coordinated with stakeholders to launch improvements in critical package tracking states, utilizing machine learning insights to reduce customer anxiety providing improved visibility on **30%** of delayed packages.
- Migrated to structured logs and analysis using Insights in AWS CloudWatch, creating a **4x** reduction in log query MTTR.
- Reduced operational overhead by coordinating security reviews for critical services and reduced vulnerability surface.

Walmart, Inc., Sunnyvale   October 2023 – August 2025
SOFTWARE ENGINEER III

- Redesigned stateful microservices to stateless architecture, boosting system throughput by **30-60%**, enhancing scalability, and improving performance.
- Implemented container analysis to determine optimal CPU and memory thresholds, cutting resource costs by **50%** and enabling greater parallelization, resulting in improved efficiency and scalability.
- Implemented custom Prometheus metrics and alerting system, reducing MTTR for critical infrastructure by up to **70%**.
- Enabled efficient analysis through machine-friendly data in Splunk, improving incident response and decision-making.
- Implemented Infrastructure as Code to provision critical infrastructure with high availability and fault tolerance.
- Implemented GitOps to streamline deployment processes, enhance collaboration, and ensure consistent infrastructure management, leading to reduced downtime and improved release cycles

North Carolina State University, Raleigh   January 2022 – September 2023
GRADUATE RESEARCH ASSISTANT

- Conduct and analyze the effect of quantum program characteristics on IBM quantum devices and provided recommendations through statistical analysis using **numpy**, **scipy**, and **scikit-learn** in **Python**.
- Enforce best practices in building a transformation model for using Qiskit programs on a DAX cloud device, a contribution to the NSF-funded Software-Tailored Architecture for Quantum co-design project.

GEP, Mumbai, India   July 2019 – July 2021
SOFTWARE ENGINEER

- Established and utilized strategic methodologies to efficiently generate data transformation (Liquid and XSLT) templates from **frontend** user interactions in **TypeScript** / **JavaScript**.
- Developed **scalable**, **distributed backend** systems using **.NET**, **C#, SQL** and **Microsoft Azure cloud** solutions.
- Utilized predictive modeling and strategic engineering procedures to redevelop from monolith to **Angular** micro-frontend architecture.

PROJECTS

Image inpainting using Neural Networks

- Played an integral role in creating **Tensorflow** / **Keras** models to predict pixel values in missing regions from incomplete and unreliable visual data. Mitigated hue, luminosity, and localization biases and improved baseline metrics by **63%**

Automated Malware Analysis

- Obtained runtime threat analysis for insecure file execution in a secure sandbox environment with **96%** accuracy.
- Trained **pytorch** model with data infrastructure utilizing VirtualBox API to spin up Virtual Machine (VM) clones, YARA rule matching on memory snapshots, and a combination of Wireshark and the Yeti platform for network packet analysis.

EDUCATION

Master of Science in Computer Science (GPA: 3.792/4) | North Carolina State University   Aug 2021 – May 2023
Bachelor of Engineering in Computer Engineering (GPA 7.9/10) | University of Mumbai, India   Aug 2015 – May 2019

CERTIFICATIONS

Microsoft Certified: Azure AI Engineer Associate	Full Stack Web Developer I Nanodegree (Udacity)
Microsoft Certified: Azure Data Scientist Associate	IBM Quantum Challenge - Fall 2021 – Advanced
Programming, Data Structures and Algorithms using Python (NPTEL)	Certified ScrumMaster (CSM)
Oracle Certified Associate, Java SE 8 Programmer	Programming in C++ (NPTEL)