

KAUSTUBH BADRIKE

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Software Development | Machine Learning | Data Science

Dynamic, innovative, and performance-focused professional experience facilitating software development, change management and system administration functions. Utilize good judgment to improve architecture and design experiences using modern architecture, frameworks, design patterns, and reliability principles. Proficient in engineering, defining requirements, designing, testing, and task management. Well-versed with the latest on-premises and cloud infrastructure solutions to produce scalable applications with maximum efficiency. Able to solve problems, influence colleagues, and work independently with minimal to zero supervision.

CORE COMPETENCIES

- Languages: Python, TypeScript, Java, C#, JavaScript, C++, SQL, PL/SQL, HTML, CSS
- Frameworks: .NET, Django, Angular, React, numpy, pandas, scipy, Node.js, Express, scikit-learn
- Tools: MongoDB, Azure, RESTful API, git, Qiskit, GitHub (& Actions), CI/CD, GitLab , Jira, Linux, MySQL, PostgreSQL

PROFESSIONAL EXPERIENCE

Quantum Computing (Dr. Frank Mueller), Raleigh

January 2022 -Present

GRADUATE RESEARCH ASSISTANT

- Conduct and analyze the effect of quantum program characteristics on IBM quantum devices and provided recommendations through statistical analysis.
- Enforce best practices in building a transformation model using Qiskit programs on a DAX device.
- Collect data sets within assigned projects and wrote reports for presentation at conferences and meetings.
- Perform various administrative responsibilities to develop solutions per research objectives.
- Provide professional-level support related to research and creative activities to increase productivity, intellectual outputs, and expand client pipelines.

GEP, Mumbai, India

July 2019 – July 2021

SOFTWARE ENGINEER

- Established and utilized strategic methodologies to efficiently generate data transformation (Liquid and XSLT) templates from user interactions. Determined areas for improvements by periodically monitoring the current company systems to consistently boost business efficiency.
- Provided prompt solutions, distributed systems for managing relational data using .NET, Azure SQL and Table Storage.
- Executed industry best practices and strategic methodologies to continuously improve processes based on user needs. Collaborated with multiple clients and technical stakeholders for requirements and feature requests.
- Utilized predictive modeling and strategic engineering procedures to redevelop transformation module from monolith to Angular micro-frontend architecture.
- Designed and spearheaded GEP Click to establish brand awareness, solidify metrics, and achieve business goals.

CMS InfoSystems

June 2018 – July 2018

IT INTERNSHIP

- Improved troubleshooting, uptime, and maintenance processes for high volume governance systems.

Jawaharlal Nehru Port Trust

June 2017 – July 2017

INDUSTRIAL EXPOSURE INTERNSHIP

- Documented specifications and identified bottlenecks for logistics software and equipment.

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) | NC State University

Aug 2021 – May 2023

Bachelor of 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)