

Kshitij Ijari

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EDUCATION

MS in Computational Science, Data Science – San Diego State University, San Diego, CA

August 2022 - August 2024

GPA: 3.6/4

Relevant Coursework: Data Mining, Data Structures and Algorithms, Distributed Systems, Data Science, Big Data Tools.

BE in computer science and engineering - KLE Technological University

August 2017 - August 2021

GPA: 3.7/4

Relevant Coursework: Networking, Operating Systems, Database Management System, Machine Learning.

PROFESSIONAL EXPERIENCE

U-Haul International | Phoenix, Arizona

December 2024 - Present

Software Development Engineer Test- AI Foundry Services, Azure, CI/CD, .Net, C#, Agile,

- Designed and deployed an end-to-end AI architecture, including a custom indexer adopted team-wide, enabling tailored codebase insights, streamlined workflows, and automated test management.
- Engineered a self-healing mechanism with an 85% success rate, reducing downtime, strengthening production reliability, and accelerating deployment cycles with production-ready contributions in the first month.
- Developed QA pipelines at Computer Use Agents (CUA) by integrating AI for proactive defect detection, automated root cause analysis, and intelligent reporting to boost efficiency and shorten test cycles.
- Currently developing MCP tools for Azure DevOps integration to programmatically manage work items, peer review, tests, builds, and releases while analyzing individual and team performance metrics.

Dori Ai Pvt Ltd | Bangalore, India

November 2021- June 2022

Software Engineer - Automated Testing, React, TypeScript, Selenium, Jest, Agile, Git

- Automated Testing Development: Defined and executed unit and integration tests using Selenium, Postman, and Pytest, reducing bugs by 35% and cutting testing time by 40%.
- Data Pipeline Engineering: Developed automated data pipelines that improved data processing efficiency, enabling timely insights for decision-making.
- Docker Integration: Streamlined CI/CD processes through Docker integration, improving deployment times by 25% and ensuring consistent environments across development stages.
- Cross-Functional Collaboration: Worked with cross-functional teams, fostering alignment between backend services and application requirements, leading to a 95% on-time delivery rate for projects.

PacketFanatic LLC | Florida, USA

September 2020 - October 2021

Full Stack Developer – React, TypeScript, Restful API, AWS, ETL, Pytest, Postman, MongoDB, Git.

- Led a team of five in the development and rigorous testing of a scalable serverless financial web app using React.js. Automated testing frameworks reduced error rates and improved processing time from 4 hours to 4 seconds, enhancing both UI/UX and application stability.
- Integration & Performance Testing: Architected and tested an Alexa-integrated AWS serverless app for COVID-19 labor shortages. Conducted thorough performance and load testing, resulting in 50% faster order processing and a 30% reduction in operational costs.

TECHNICAL SKILLS

- Programming Languages:** C++, Python, Java, JavaScript, TypeScript, R, C, HTML5, Tailwind CSS3
- Frameworks / Technologies:** React, Node.js, Apache Spark, Selenium, Pytest, NumPy, Pandas, Chart.js, D3.js, Tableau
- GenAI Technologies:** PyTorch, Groq (open source), LangChain, ChromaDB, Streamlit
- Databases / Operating Systems:** DynamoDB, MySQL, MongoDB, Windows, macOS, Linux/Unix
- Cloud Platforms / DevOps Tools:** AWS (S3, EC2, EKS), GCP, Azure, JIRA, CI/CD, Jenkins, Docker, Kubernetes

PROJECTS EXPERIENCE

2D Image Reconstruction using Differentiable Plasticity .

May 2020

Published on IEEE - <https://ieeexplore.ieee.org/abstract/document/9418086/>

- Leveraged PyTorch framework to optimize plasticity in recurrent neural networks with Hebbian connections, enhancing reconstruction and memorization of tasks involving gray-colored images.

Optimizing Recurrent Neural Network Using Neuromodulation

November 2021

Published on IEEE - <https://ieeexplore.ieee.org/abstract/document/9580032/>

- Improved model performance in neuromodulation and differentiable plasticity through PyTorch framework, with rigorous hyperparameter tuning, resulting in a 3% increase in accuracy, reduced training time, and enhanced efficiency.

Sustainable Pavement Management

July 2024

Published on MDPI - <https://www.mdpi.com/2076-3417/14/15/6640>

- Developed an advanced pavement management system leveraging machine learning models like EfficientNetB3, ResNet, and GANs to enhance road maintenance and sustainability