

Rishabh Rajmal Jain

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SKILLS

Languages	Java, C/C++, Python, SQL, JavaScript, Dart, HTML/CSS, PHP, Shell Scripting, Visual Basic (VB.net), C#
Frameworks	Flutter, React Native, OpenAI, Node.js, ReactJs, Flask, Docker, Kubernetes
Databases	Oracle DB, PostgreSQL, MySQL, Amazon DynamoDB, MongoDB, Google Firebase, NoSQL
Cloud	Azure, AWS
Software & Tools	Postman, Github, Unity, QlikSense, JIRA, Clickup, Apache HTTP Server, CI/CD, Xcode
SE Skill	Agile software development, Code optimization, KT, Planning, SE Principles, Program Structures and Algorithms, Software Quality Assurance, Big Data Management
Soft Skills	Clear emphatic communicator, efficient time manager, collaborative team leader and player, resilient under pressure.

EDUCATION

Master of Science - Computer Science	University of Delaware, Newark, DE GPA: 3.9/4	Aug 2022 — May 2024
Bachelor of Technology - Information Technology	K.J Somaiya College of Engineering, Mumbai GPA: 3.56/4	Aug 2017 — May 2020

EXPERIENCE

Research Assistant HCI Lab, University of Delaware, Newark, DE	June 2023 — Present
<ul style="list-style-type: none">- Developed an open-source mixed reality (MR) environment in Unity for teaching and practicing emergency foam depopulation of poultry.- Led collaboration and communication among interdisciplinary department members to design and implement realistic scenarios and simulations within the MR environment, leading to complete training 2x faster. Learnt and built custom farm objects in Maya.	
Software Engineer Intern TabulaRasa Health Care Inc., Philadelphia, PA	June 2023 — Aug 2023
<ul style="list-style-type: none">- Achieved reduction in troubleshooting time by developing comprehensive shell scripts and bash scripts to automate data migration tasks on a cloud server, streamlining operations, and improving efficiency.- Streamlined operations by efficiently triaging and resolving over 500 old tickets through analysis and prioritization, enhancing system performance and user satisfaction.	
Data Engineer Larsen & Toubro Infotech Limited, Mahape, Mumbai	Aug 2020 — Jul 2022
<ul style="list-style-type: none">- Worked on data pipelines that extracted data from different source systems using Dataflow and loaded into BigQuery by performing different transformations.- Worked extensively on File Ingestion (.PSV), to load it into Google Bigquery. Orchestration of ETL pipeline using Airflow Dags in Python.- Writing Complex SQL queries in BQ using joins functions, and different statements in which transformations are handled	
Freelance Software Engineer AlgoOcean Technologies Pvt Ltd, Mumbai	May 2020 — Jun 2022
<ul style="list-style-type: none">- Engineered seamless integration of REST APIs, resulting in a remarkable 30% reduction in loading time, enhancing user experience.- Successfully deployed a portfolio of 20+ applications on both Apple and Google Play Stores, collectively amassing an impressive 500K downloads, showcasing the tangible market impact and user adoption.	

PROJECTS

Sudoku Puzzle Solver Python, Flutter Web	May 2023
<ul style="list-style-type: none">- Created a Sudoku puzzle-solving AI game utilizing a backtracking search for Constraint Satisfaction Problems (CSPs) and implemented the AC3 algorithm. https://github.com/jainnrishabh/Sudoku_Puzzle_Flutter_Web- Outlined the user interface using Flutter web to enable seamless input and solution of custom puzzles.	
Virtual Yoga Instructor App Android Studio, Python	May 2023
<ul style="list-style-type: none">- Engineered a mobile app to detect Yoga Poses in real-time with the help of Movenet and KNN. The user can either take a picture and then have the pose recognized or during a livestream video the app will recognize the poses performed.- Created and validated a training set for the K-NN classifier, tested it on samples, and exported it to a CSV that can be used in the app. The training accuracy of the TFLite model generated was found to be around 84% when the model was trained for 20 poses.	
Cryptocurrency Price Forecasting Python, TensorFlow, Numpy, Pandas, Matplotlib	Dec 2022
<ul style="list-style-type: none">- Collaborated with a team of three to develop neural networks for predicting cryptocurrency prices through an ablation study.- Conducted experiments on different numbers of LSTM layers and 1D-CNN with LSTM layers, using a range of hyperparameters.	
Swachhcha - Swachh Survekshan Flutter, MongoDB, NodeJS	Sept 2022
<ul style="list-style-type: none">- Crafted a full-stack mobile app to address public toilet usage issues, leading a team of 15 developers in collaboration- Documented 300+ user stories, guided the team in module design and development, and resolved problems faced by users	
Eazr - Buy-now pay-later React.js, Node.js, Python	June 2021
<ul style="list-style-type: none">- Unfolded a mobile app and implemented a credit score prediction algorithm using machine learning, considering device parameters.	

CERTIFICATIONS & ACHIEVEMENTS

- Azure fundamentals AZ900 Certification(Credential:H693-9212) | Microsoft
- Published a research paper | 4th ICAST'21: [Advantages of Blockchain in Digital Forensic Evidence Management](#)
- Completed a certification on the topic Redux in React Native (Credential Id: R8PGISDX) | Udemy
- Secured 2nd Rank in Diploma in Computer Technology.