

SHREYAS KULKARNI

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EDUCATION

Rutgers University

Master of Science in Computer Science | **GPA: 3.8/4.0**

- TA for Intro to Stat course: Conducted and managed 10+ recitations and graded assignments for 120+ students
- Coursework: Machine Learning, Data Structures and algorithms, Massive Data Mining, Computational Robotics

New Brunswick, NJ
Sep 2021 - May 2023

University of Pune

Bachelor of Engineering in Computer Engineering | **CGPA: 8.99/10**

- Coursework: Software Engineering & Project Management, Database Management System, Advanced Data Structures

Pune, India
Jun 2016 - May 2020

EXPERIENCE

ADP

Associate Application Developer

- Designed and developed GenAI Automation Solution from the ground up, crafting a standardized frontend using React and Typescript, building a resilient backend with Java Spring Boot for seamless performance
- Conducted extensive research on GenAI models, including GPT-4 and Meta Llama 2, and worked on fine-tuning and training the models, enabling the seamless automation of test script generation based on user query inputs
- Spearheaded the integration of the GenAI Automation Solution into ADP modules, leading to a substantial 50% boost in efficiency
- Collaborated within the Agile team "Sagittarius" to develop and implement the "Sync SIA" feature, enhancing client capabilities to search for associates and synchronize data seamlessly
- Used React Redux and Typescript with ADP's standard framework, OneUX, to deliver a user-centric frontend experience aligned with company best practices.

Parsipanny, NJ

Jun 2023 – Present

Application Developer Intern - SRE DevOps Team

- Developed and deployed a centralized workflow management system for ADP employees, streamlining the onboarding process for new microservices, automating repository creation and deletion, and linking microservices
- Improved the system by redesigning the front end using ReactJS, TypeScript and incorporating a Redux-powered backend using Python, resulting in a reduction of 500 lines of code and the creation of a new ADP standard website
- Deployed the system with Docker, resulting in a 70% increase in user engagement and making the web app the preferred destination for ADP developers to monitor live deployment status

Jun 2022 – Aug 2022

AriaAI IntelliGen

Software Development Engineer Intern

- Designed and implemented a versatile chatbot service as a standalone web application or as an integration into existing websites
- Led a team of 4 in creating an admin panel with real-time analytics to monitor customer engagement and improve customer experience
- Demonstrated demographic user insights through data visualization and attracted interest from 5 potential investors

Pune, India

Sep 2020 – Apr 2021

PROJECTS

The Culinary Theory - [Code](#)

- Built a recipe blogging website for food enthusiasts that allows them to post and browse recipes, interact with other users, and subscribe to a premium subscription service for additional features
- Constructed and maintained responsive front-end interfaces using ReactJS and JavaScript, while utilizing AWS services such as EC2 for remote server creation and running the application, and S3 for data storage

Abstract Visual Reasoning Task - [Code](#)

- Developed and enhanced the MRNET-based Network, a novel solution for Abstract Visual Reasoning tasks, specifically RAVEN's Progressive Matrices (RPM), and trained on over 10,000 RPM problems from the I-RAVEN dataset, outperforming baseline models like LSTM, CNN, and Resnet
- Contributed to advancing the field of Abstract Visual Reasoning through the innovative MRNET-based Network approach

Traffic Sign Detection - [Code](#)

- Designed and implemented a Traffic Sign Detection system utilizing Spiking Neural Networks, achieving 11% improved accuracy compared to traditional neural networks
- Collaborated with a team of 3 to train the neural network on over 5,000 images from the German Traffic Sign Dataset

SKILLS

- **Programming Languages:** Python, TypeScript, JavaScript, SQL, C++, HTML, CSS
- **Developer Tools:** AWS, Docker, Git, PySpark, Databricks, VS Code, Jupyter Notebook
- **Frameworks:** ReactJS, Redux, Django, TensorFlow, PyTorch, Keras, NLTK, scikit-learn, Matplotlib, pandas, CUDA