APOORV SHARMA

(+1) (585)-710-0796 • E-Mail: apoorv.sh98@gmail.com

GitHub: apoorv-sh98 • LinkedIn: www.linkedin.com/in/apoorv-sh98/ • Availability: Feb 2024

EDUCATION

University of Rochester

Rochester, NY, USA

Master of Science, Computer Science (GPA: 3.30/4.00)

Aug 2022 - Dec 2023

• Projects: frog classification with SVM and MLP, Image segmentation with U-Net and CLAHE-Morph, pose estimation using deep learning

Thapar Institute of Engineering and Technology

Patiala, PB, India

Bachelor of Engineering, Computer Engineering (GPA: 3.29/4.00)

Jul 2016 - Jul 2020

Projects: Sudoku creator and solver, Marker-based augmentation, Virtual reality maze game, Animated Lamp using Blender

SKILLS

Technical

Java, Python, Auto It, SQL, Docker, Kubernetes, Spring-Boot, Apache Kafka, REST, OAuth, SAML, SOAP, Maven, Postman, Swagger, Jenkins, Cucumber, JUnit, TestNG, AWS, Splunk, TensorFlow, Unity, Design Patterns, OOPs, Web services, Linux, GIT, CI/CD, JIRA, Scrum, JSON, XML, Data Structures and algorithms, Image Processing, Deep Learning, Augmented and Virtual Reality.

Soft skills Problem solving, Creativity, Communication, Time management, Teamwork.

WORK EXPERIENCE

D&G Analytics Inc.

Rochester, NY, USA

Sep 2023 - Dec 2023

Engineer Intern (Part-Time)

- Optimized the Python module to extract packages with specific magic headers.
- Designed an end-to-end workflow to initiate a Windows virtual machine for running the Python module and extraction process and increased performance by 83%

D&G Analytics Inc.

Rochester, NY, USA

May 2023 - Aug 2023

Engineer Intern (Full-Time)

- Established an automated pipeline for Windows-specific exe files, enhancing extraction speed and efficiency.
- Crafted an advanced Auto-It script tailored to interface seamlessly with Windows GUI controls, heightening both accuracy and performance.
- Innovated a Python module that integrates with 'Universal Extractor 2', orchestrating the workflow and as a fail-safe mechanism, invoking the specialized Auto-It script in the event of challenges.
- Demonstrated skills by developing .exe file extraction efficiency through the implementation of Auto-It, resulting in a 52% reduction in extraction time.

Amdocs Development Center India LLP

Gurgaon, HR, India

Software Developer (Full-Time)

Aug 2020 - Jul 2022

- Enhanced OSS solutions by leveraging cloud-native technology stack to develop micro-services for Telstra account.
- Engineered a robust message handler application using Spring Boot, seamlessly connecting incoming downstream Apache Kafka traffic with upstream REST APIs bidirectionally, enhancing dataflow and communication.
- Improved API security by integrating with Amdocs's core security layer, preemptively redirecting unauthorized users prior to interaction with spring controllers using the Kubernetes cluster layer.
- Led the development of an extensive automation framework, harnessing Cucumber and TestNG. Collaboratively integrated it with a Spring Boot application that simulated Kafka transactions, and slashing average testing duration by 70%.
- Implemented a Java module to dispatch emails for jeopardy orders, integrated it with the order orchestration pipeline.
- Oversaw and managed inaugural production tasks and support operations, adeptly maneuvering between production and pre-production environments.

Delhi Technological University

Delhi, DL, India

Jan 2020 - Jun 2020

- Research Intern (Full-Time)
 - Investigated advanced techniques in low-light image enhancement realm, spanning both conventional and data-driven approaches.
- Implemented six state-of-the-art enhancement techniques utilizing Python and TensorFlow and performed an in-depth comparative analysis, assessing the performance of each method through qualitative and quantitative metrics to determine the superior algorithm.

PROJECTS

Language model comparison for customer reviews

Mar 2023 - May 2023

- Compared the performance of three transformer models 'Distil-Bert', 'Bert-Base' and 'Roberta-Base'.
- Aim to determine the authenticity of customer reviews by discerning originals from their paraphrased counterparts.

Sequential Modelling

Oct 2022 - Dec 2022

- Engineered a system implementing two Hidden Markov Models (HMMs) with configurable hidden states.
- Trained the models using the Expectation-Maximization algorithm and Sum-Product algorithm, aimed for improved natural language classification, solely utilizing the NumPy library.

Alzheimer's Assistant

Jan 2019 - Dec 2019

- Innovated a wearable device designed to aid elderly dementia patients to do daily activities and enabled the caregivers to monitor the patients' locations without the need for continuous surveillance.
- Refined the device with critical features such as fall detection and emergency alerts on the caretaker's mobile application.