Stony Brook, NY

Expected: May 2024

EDUCATION

Stony Brook University

Masters of Science in Computer Science (STEM)

Coursework: Computer Networking, Computer Vision, Human Computer Interaction [Fall 2022]

Operating Systems OS, Data Mining, Advanced Project - I [Spring 2023]

Dwarkadas J. Sanghvi College of Engineering - University of Mumbai

Bachelor of Engineering in Information Technology CGPA: 8.99/10

Mumbai, India

May 2021

Coursework: Data Structures and Analysis, Software Engineering & Project Management, Cloud Computing

TECHNICAL SKILLS

Programming Languages: Python, Java, R, SQL, C++

Web Technologies: HTML, CSS, JavaScript, Servlets, JSP, Struts, MVC, Spring, Express.js, Reactjs, Node.js

Databases: MySQL, Microsoft SQL Server, MongoDB Data Visualization Tools: Tableau, matplotlib, Chart.js

Cloud Technologies: Amazon Web Services AWS, Google Cloud Platform

Operating Systems: Windows, UNIX/Linux

Version Control Systems: Git, SVN

EXPERIENCE

Knowledge Systems Lab, Stony Brook University

Research Team Member

New York, USA February 2023 - Present

• Developing a set of **Python** scripts for automation of UI traversal of applications via natural language instructions

- Utilizing Python, JavaScript, & Node. is to store extracted UI elements in tree & graph data structures to reduce search time
- Implemented an custom image classifier, trained on our dataset to identify menu icons of web apps for efficient traversal

Arthur J. Gallagher & Co. (Gallagher Re)

Mumbai. India

Software Development Engineer

July 2021 - July 2022

- Collaborated with the development team of iFM Online, an enterprise web application for financial modeling
- Engaged in full stack development using object oriented programming by coding Java EE components in Spring framework
- Leveraged Struts 2.0 and the MVC design patterns and worked on the entire Software Development Lifecycle (SDLC), including code reviews, testing and debugging
- Worked with web development technologies like HTML5, CSS3 & JavaScript, along with various JavaScript libraries
- Developed complex SQL queries, Procedures, Triggers, Packages & Views on client databases
- Engineered the development of 5 significant features in the 21.0 release of the platform including front-end enhancements, backend bug fixes & dynamic data visualization using Chart.js

Tata Consultancy Services

Mumbai, India

Full Stack Engineer Intern

December 2019 - February 2020

- Identified 4 classes of fraudulent activities in online airline booking data via data analytics on open-source datasets
- Trained an advanced outlier detection algorithms using Python to detect patterns from booking data with an 87% accuracy
- Integrated the machine learning model into a web application using MERN stack (MongoDB, Express.js, React JS, Node.js)

Research et al.

Mumbai, India

Co-founder & Research Lead

April 2020 - July 2021

- Bootstrapped an organization committed to inspiring and guiding engineering students to pursue applied research
- Oversaw research in over 8 projects involving AI/ML, Computer Vision, NLP & Deep Learning
- Oversaw operations within our team of 8 members and collaborated with over 100 students across the country
- Leveraged business analytics using Python and was able to generate INR 1 million in revenue from multiple streams

PROJECT HIGHLIGHTS

February 2022 - Present

September 2022

Stony Brook University. Mentor: Aruna Balasubramanian

[Python]

- Built a tool for analysing and assessing the attributes of the TCP & HTTP protocols from PCAP files using the dpkt library
- Retrieve information about the count as well as transaction details including throughput, loss rate and RTT of the TCP flows
- Augmented the TCP model to reassemble HTTP flows along with details about the version and the number of packets sent

Vision and Language Navigation using Minimal Voice Instructions

March 2021

Dwarkadas J. Sanghvi College of Engineering. Mentor: Prachi Tawde

[C++, Python, JavaScript, HTML, GCP, Shell scripting]

- Developed a set of navigation algorithms for a virtual agent to traverse a 3D space using minimal voice instructions
- Devised the central algorithm, along with coding the object recognition and path planning module for the team
- Integrated individual modules into a cloud-based web application deployed on Google Cloud Platform