SARVESH SIRAS

sarveshsiras@gmail.com ⋄ linkedin.com/in/sarveshsiras/ ⋄ sarveshsiras.github.io

EDUCATION

Bachelors in Information Technology (B.Tech.) (CGPA: 7.91)
College of Engineering, Pune (COEP)   2017 - 2021

Honors in Computer Engineering
College of Engineering, Pune (COEP)   2019 - 2021
Completed additional 12 credits of graduate level courses under the Honors Degree Certificate program

Higher Secondary School Certificate(Grade XII) (86%)   2017

Secondary School Certificate(Grade X) (96.6%)   2015

PROFESSIONAL EXPERIENCE

Software Engineer II, Mastercard   July 2021 - Present

- Designed and Developed highly scalable, secure, fault-tolerant micro-services capable of handling 500 transactions per second using Java, Spring boot, Kafka, and SQL
- Played a vital role in the migration of Monolithic applications to Micro-services architecture which had better performance and scalability
- Utilized tools like Splunk and Dynatrace to analyze the performance of critical features, identifying and resolving bottlenecks to enhance overall system efficiency threefold
- Collaborated effectively with stake-holders, product managers, architects, and fellow engineers to define project requirements, plan Agile development sprints, and deliver high-quality software solutions on time
- Thrived in a fast-paced environment, effectively managing multiple projects and priorities, actively participating in code reviews and provided constructive feedback to enhance code quality

Summer Intern, Mastercard   May 2020 - June 2020

- Worked with the Operations and Technology team to develop a REST application using technologies like Spring-boot, Java, React, and H2 Database
- Developed a mocking framework using Wiremock API to enable Rapid Application Development that reduced development time by 50%

ACADEMIC PROJECTS

Digitization of Invoices   Aug 2020 - May 2021
(Tech Stack: Python, CNN, Tesseract, OpenCV, PyTorch, Pillow, Flask, HTML, CSS, JavaScript)

- Employed Computer Vision techniques to digitize paper-based invoices with tables into excel sheets with 84% accuracy
- Applied Machine learning models to accurately map the invoice data into an excel sheet
- Trained Convolutional Neural Network models and devised image processing techniques to detect table and process text, respectively

Evaluating a politician's popularity   Feb 2019 - May 2019
(Tech Stack: Python, Machine Learning, Tweepy, Natural Language Processing, Sentiment Analysis)

- Determined a politician's popularity using tweets mentioning them during the general election campaigning in 2019 of the world's largest democracy
- Tweets gathered via Twitter API were filtered and tokenized to extract relevant data
- Analyzed the extracted data using Sentiment Analysis techniques and Machine learning models to conclude about the politician's popularity

Heap Manager   Aug 2018 - Nov 2018
(Tech Stack: C, Unix programming, brk and sbrk sys calls)

- Developed a set of C functions like malloc, calloc, realloc and free, to manage the system heap memory effectively
- Designed a combination of buddy and free-list type memory allocators to allocate and manage the system heap
- Used in the campus tech fest app to optimize its memory usage

File Transfer Protocol   Aug 2019 - Nov 2019
(Tech Stack: Python, Socket Programming)

- Developed a secure terminal-based bidirectional File Transfer Protocol application for transmitting files over the network using a TCP/IP connection
- Implemented the transfer of multiple files simultaneously using multi-threading.
- Built a locking mechanism to prevent modification of existing files under process

SKILLS

Languages	C, C++, Python, Java, SQL, HTML, CSS, JavaScript, PHP
Technologies and Frameworks	Data Structures, RDBMS, Flask, Spring Boot, Docker, GIT, OpenCV Machine Learning, Natural Language Processing, Cloud Computing, Jenkins, J2EE, Object Oriented Programming, Distributed Systems
MOOCs	IBM Machine Learning Professional Certificate Specialization in Python by University of Michigan (Coursera) Deep Learning and Neural Networks by Andrew Ng (Coursera)

LEADERSHIP AND VOLUNTEERING

Pro Bono Consultant, Bal Utsav

- Managed a team of eight over the 10-week program as the team lead to develop social impact solutions to support Bal Utsav (an NGO supporting the education of poor children in India)
- Formulated communication strategies with a strong focus on digital visibility that helped Bal Utsav expand its reach by ten times

Head, Bhau's Innovation and Entrepreneurship Cell

- Led the team that was responsible for the organization and scheduling of Pune Startup Fest, which witnessed a convergence of 200 startup exhibitors, 100+ investors, and a crowd turnover of 20k+ people
- Responsible for promoting the spirit of innovation and entrepreneurship among my fellow students

EXTRACURRICULAR

- Computer Society of India (Student Member)
- COEP Boat club team member
- Playing Chess

CONTACT INFORMATION

Mobile: +91 94053 91265
Mailing Address: Gangavatran, Lokmanya Nagar, Parbhani - 431401, India.