

# SARVESH SIRAS

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## EDUCATION

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### Bachelors in Information Technology (B.Tech.) (CGPA: 7.91)

(With Honors in Computer Engineering),

College of Engineering, Pune (COEP)

2017 - 2021

### Higher Secondary Certificate(HSC) (86%)

2017

### Secondary School Certificate(SSC) (96.6%)

2015

## EXPERIENCE

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### Software Engineer 1, Mastercard

July 2021 - Present

- Developing high quality, secure, scalable microservices, event driven APIs and REST APIs predominantly using Java, Spring boot and SQL for building of a cloud-based global tokenization platform that assists digital payments and powers digital giants like Apple Pay, Samsung Pay and many others.
- Working regularly in implementing CI/CD build pipelines with tools like Git, Jenkins, Maven, etc.
- Working collaboratively with Product Development teams to develop, scale and support software products in Scaled Agile Software Development environment.

### Summer Intern, Mastercard

May 2020 - June 2020

- Worked with 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 for enabling Rapid Application Development that reduced development time by 50%.

## SKILLS

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### 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

## PROJECTS

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### Digitization of Invoices

- Developed a system to digitize paper-based invoices with tables into excel sheets using Computer Vision techniques.
- The system used Machine learning models to map the invoice data into the excel sheet.
- The system used the Convolutional Neural Network model to detect table and Tesseract and Image processing using OpenCV to process text.
- The system had an accuracy of around 84%.

### File Transfer Protocol

- Developed a secure terminal-based bidirectional File Transfer Protocol application for transmitting files over the network using a TCP/IP connection.
- The application allowed the transfer of multiple files simultaneously with the help of threading.
- The application was developed in Python using Socket Programming libraries.

## **Determining the popularity of a politician from Tweets**

- The project's objective was to determine a politician's popularity using tweets mentioning them during election campaigning.
- The system gathered tweets using Twitter API, and these tweets were then tokenized to keep only the relevant data.
- The tweets were then analyzed using Sentiment Analysis techniques and Machine learning models to determine the politician's popularity.

## **Heap Manager**

- Developed a set of C language functions like malloc, calloc, realloc and free, to manage the system heap memory.
- Used a combination of buddy and free-list type memory allocators to allocate and manage the system heap.
- The functions were written in C language and used brk and sbrk system calls for memory management.

## **CERTIFICATIONS**

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- Specialization in Python by University of Michigan (Coursera)
- Deep Learning and Neural Networks by Andrew Ng (Coursera)

## **LEADERSHIP AND VOLUNTEERING**

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### **Pro Bono Consultant, Bal Utsav**

- As the Team Lead, managed a team of eight over the 10-week program to develop social impact recommendations and solutions to support Bal Utsav in creating a communication strategy with a strong focus on digital visibility to build awareness and engagement around its programs and services to further expand its reach.

### **Core Committee member, Bhau's Innovation and Entrepreneurship Cell**

- Responsible for promoting spirit of innovation and entrepreneurship among my fellow students in Institution.
- Played a crucial role in 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.

## **EXTRACURRICULAR**

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