

Sai Praneeth

SOFTWARE DEVELOPMENT ENGINEER | CREATIVE PROBLEM SOLVER

Hyderabad, TS

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Education

Vellore Institute Of Technology

Vellore

B.TECH. | CGPA 8.13/10.0

2016-2020

- **Relevant Courses:** Object Oriented Programming, Cyber Security, Data Structures and Algorithms.

Senior Secondary

Hyderabad, TS

NARAYANA JUNIOR COLLEGE, MADHAPUR, HYDERABAD | 88.6%

2014-2016

Skills

Languages

Python, Javascript, NodeJS, Typescript, C, \LaTeX

Tools/Frameworks

AWS, Docker, Redis, MongoDB, Flask, FastAPI, Express, PyTest, Selenium, Mocha, Sentry, Grafana, HTML/CSS.

Experience

Hyperverge Inc.

Bangalore, KA

SOFTWARE DEVELOPMENT ENGINEER

June 20 - present

- Improved overall throughput by 60% by splitting product into microservices.
- Used tools like sentry, opentelemetry as well as set up test environment to reduce 5xx error rates to almost zero.
- Developed polling models for s3 instead of committing to git, this has reduced effort of engineering team significantly.
- Developed an end to end service from scratch to blacklist devices, to block with multiple fraud attempts.
- Contributed and gained expertise in developing various components of document verification service, which analyzes and retrieves data. Built it from initial stages from defining the requirements to completion of deployment.
- Designed and developed end-to-end fully functional service which categorizes ID cards based on their quality into different buckets. Focused on various service aspects like scale and configurable design.

Hyperverge Inc.

Bangalore, KA

SOFTWARE DEVELOPMENT INTERN

Dec 19 - June 20

- Implemented an API to avoid data theft, by encrypting customer data to transfer them through various geographies, which is decrypted on the receiver's side
- Developed a complete feature to mask user identification number, in national cards of various geographies. This has been made regional agnostic which generically solves the problem.
- Dockerised application which made deployment easy.
- Built an API which validates the user inputs with the data from the user uploaded ID card, this has been generalized to handle different kinds of information in the ID card. This helps customers avoid entering incorrect data.

Ordnance Factory

Hyderabad, TS

INTERNSHIP: IN-PLANT TRAINEE

June 18 - Jul 18

- Underwent a 4 week fully sponsored In-Plant Training Program.
- Designed model part using Solidworks.
- Gained experience working with CNC machines programmed using G-Code.

Projects

GAMES DEVELOPED

- Created Snake, Pong, Bomber Man, Minesweeper games using Pygame(Python).
- Created endless-run game using unity in C-sharp.
- Coded multiplayer Shooting Game using UDP socket connection.

AUTOMATICALLY CALLING AN AMBULANCE SERVICE

- Created a service which calls an ambulance in the event of an accident. Used Raspberry Pi, which retrieves the coordinates of the vehicle location and passes it to the server.
- Google Place API is used to retrieve the phone numbers of the ambulance services near to the accident location.
- Used SMS-Gatewayhub to message the coordinates of the accident location to the ambulance service providers, thereby bypassing the need for a phone call.

TIMING ATTACKS ON RSA

- Analyzed how effective timing attacks can crack the key of RSA secured system.
- The analysis performed highlights the vulnerabilities of the RSA algorithm.

HOSTED A SITE - CHECKMETER

- Hosted a site using Flask. A custom link will be generated per user after signing up on this website. This link can be further forwarded to friends, in which they can enter data which is thereafter visible to the user.

STUDENT ATTENDANCE MANAGEMENT SYSTEM

- Backend: Node.js.
- Frontend: HTML, CSS, Javascript.
- Created a website to manage attendance of students and perform operations.

Honours & Awards

★★★★ rated in codechef <https://codechef.com/users/mrfox007>

2016 **Recipient of Scholarship** for meritorious performance in VITEEE-2016

12-14 **First place** chess tournament in three consecutive academic years where 300 people take part in event year