

# Sai Praneeth Gurrapu

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## CAREER OBJECTIVE

To work in a reputable organization to utilize my skills for the growth of the organization as well as to enhance my skills and knowledge about new and emerging trends.

## SKILLS

<b>Languages:</b>	Python, Data Structures and C
<b>Web Technologies:</b>	HTML, CSS, JavaScript, React.js, Django
<b>Web Services</b>	RESTful
<b>Database:</b>	MySQL, Oracle and Mongo DB
<b>Software:</b>	Jupyter, Git, GitHub, Jira, VS Code
<b>Methodologies:</b>	SDLC, Agile and Scrum
<b>Operating Systems:</b>	Windows and Linux
<b>Servers/Containers:</b>	Docker

## EDUCATION

**Masters of Technology in Computer Science & Engineering** | Jan 2024 – Aug 2024

**Florida Atlantic University, Florida, USA** | GPA: 3.93/4

**Coursework:** Java, Data Structures, Python, Data Algorithms, Database Management System and Computer Network.

**Bachelor of Technology in Computer Science & Engineering** | Jun 2016 – Sept 2020

**Mahatma Gandhi Institute of Technology, Hyderabad, India** | GPA: 7.4/10

**Coursework:** Java, Data Structures, Python, Data Algorithms, Database Management System and Computer Network.

## PROJECTS

**Food Recipe App** | Sep 2024 – Sep 2024

**Description:** A simple application that allows users to search for different types of food and view details like ingredients, recipes. The app fetches data from an API and displays it in a clean, user-friendly interface.

**Skills:** React.js · JavaScript · HTML · Cascading Style Sheets (CSS)

**Todo App** | Sep 2024 – Sep 2024

**Description:** A task management application that helps individuals organize their tasks and stay on top of them.

**Skills:** React.js · JavaScript · HTML · Cascading Style Sheets (CSS)

**Malware Detection using ML** | Apr 2023 – Jun 2023

**Description:** Implemented Malware Detection using ML algorithms, including data collection, feature engineering and model training. Utilized advanced techniques such as feature extraction and ensemble learning to detect and classify malicious software with high precision.

**Skills:** Python · Machine Learning · Data Mining · Convolutional Neural Networks (CNN) · Artificial Neural Networks

**Classification of Flowers** | Nov 2021 – Dec 2021

**Description:** Classification of different images using the convolutional neural networks to predict the type of flower from Kaggle flower dataset.

**Skills:** Python · Machine Learning · Convolutional Neural Networks (CNN)

**Drowsy Driver Detection** | Jan 2020 – Apr 2020

**Description:** To measure the drowsiness of a person while driving and alert when he/she feels drowsy to avoid accidents. Languages used are Python. Tools used to build the code are PyCharm.

## WORK EXPERIENCE

Intel Technologies Pvt. Ltd., Bangalore, India  
Graduate Technical Intern

| Aug 2022 – Apr 2023

### Project A Case Study on Software Testing Technique, Fuzzing

**Description:** Fuzzing, a negative software testing technique, which helps in testing software binaries, libraries and web services to find software vulnerabilities.

#### Roles and Responsibilities:

- An understanding of open-source tools like AFL, CVE-bin-tool, BlackDuck Analysis, LibFuzzer for finding software vulnerabilities.
- Enablement of AFL tool for finding vulnerabilities at every stage of software development and reporting the vulnerabilities found during the campaign.
- Enablement of LibFuzzer tool for the libraries used in building the application and reporting vulnerabilities.
- Leveraging some open-source tools like cve-bin-tool for finding known-vulnerabilities.
- Reports preparation - Daily, Weekly, Monthly basis.

### Project Fuzzer-as-a-Service

**Description:** A comprehensive study on fuzzing, which is a negative software testing, to provide it as-a-Service to users for testing their applications or web services and get the report/analysis using REST services, so that, reduces the overhead of maintaining and understanding how to use the fuzzer.

#### Roles and Responsibilities:

- Implemented a webserver to accept an input file which is necessary to give as input to fuzz engine and stored at the server side.
- The fuzzer provided as-a-service is RESTler which is an open-source tool used for testing APIs.
- Enablement of fuzzing by defining an endpoint in the server where a user can make a request using REST services to start fuzzing process of user choice.
- Analysis of the reports generated by the fuzz engine are done at the server side when a user request is made.
- The reports should be sent to the user in JSON format which is user understandable.
- Used **GIT** repository for software configuration management and version control.

## CERTIFICATIONS

- Introduction to Soft Computing
- The Joy of Computing using Python
- Software Project Management