

# Gautam Pranjal

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LinkedIn | Website | GitHub

## EDUCATION

**University of Southern California, Los Angeles, California** **December 2022**

Master of Science, Computer Science

GPA: 4.0/4.0

Coursework: Analysis of Algorithms, Foundations of Artificial Intelligence, Machine Learning, Database Systems

**Netaji Subhas Institute of Technology, University of Delhi, India**

**May 2018**

Bachelor of Engineering, Information Technology (First Class with Distinction)

CGPA: 8.85/10

## TECHNICAL SKILLS

**Programming Languages:** Python, PHP, C++

**Web Technologies:** HTML, CSS, JavaScript, JSON, jQuery, Bootstrap, Flask, PHP

**Databases:** MySQL, SQLite, phpMyAdmin

**Cloud Technologies:** Google Cloud Platform (Virtual Machines), Azure (PMT), AWS (EC2)

**Toolkits:** Git, Jira, RobotStudio, Azure DevOps, Azure Pipelines, Jenkins

**Scripting:** Batch, Shell

## PROFESSIONAL EXPERIENCE

**Wipro Limited, Bengaluru, India**

**Senior Project Engineer**

**July 2018–January 2021**

**Server Management Portal**

- Designed and created the end-to-end structure of web applications for Server Management and Health Portal.
- Created the front end using HTML, JavaScript, Bootstrap, jQuery, programmed the backend APIs in PHP and Flask, and leveraged phpMyAdmin for SQL.
- Wrote shell scripts to gather resource utilization and jobs status for EC2 instances.

**SAP-DevOps**

- Implemented DevOps and Agile in the SAP landscape.
- Integrated non-SAP tools (Jira, Azure DevOps) with SAP Solution Manager for better project management.
- Overcame an obstacle of object lock present in SAP by enabling parallel development using GitHub and ABAPGit.
- Assisted in creation of pipelines on Azure DevOps and Jenkins and connected them to developer's IDE using APIs made via Python and Flask for automated testing.
- Reduced the R2D time by ~35% and testing time by ~55%, leading to a budget reduction of ~30%.

**ABB GISPL, Bengaluru, India**

**Software Developer Intern**

**May 2017–July 2017**

**Small Information System**

- Programmed a windows application using C# to communicate with a Robot Controller.
- Analyzed and devised functions to collect robot's data, process, store, and display the data as part of HMI screens.
- Simplified the view and access to Robot data for engineers by utilizing only a single application.

**NIIT Technologies, Greater Noida, India**

**Software Developer Intern**

**December 2016**

**Efficient Logging System**

- Developed a framework to automatically retrieve logs from multiple sources, process and store back the logs.
- Reduced the time from gathering logs to storage by ~20%.

## PROJECTS

**First Order Logic Resolution:** Input a set of FOL queries, and output a conclusion.

- Constructed the functionality using Python to read input queries, resolve and output conclusion into a file.

**Checkers Game Playing Agent:** Output the best possible valid move for a given checkers board.

- Implemented an AI agent in Python using Minimax algorithm and improved efficiency by adding Alpha-Beta pruning.

**Manga Catcher:** Tackled unstable network by having a feature of downloading comics.

- Constructed a Python script to download chapters from a web source for offline viewing.

**A Secure and reliable data backup and recovery technique using seed block algorithm.**

- Responsible for algorithm design and implementation. [Undergraduate: Major Project].

**Authentication and key agreement scheme for multi gateway wireless sensor networks in IoT deployment.**

- Responsible for finding vulnerabilities in the present scheme and eliminating them. [Undergraduate: Minor Project]

## LEADERSHIP AND INVOLVEMENT

- Assisting the Professor as Course Producer for a graduate-level course, 'Foundations of Artificial Intelligence', delivering course curriculum, tutoring, advising, and grading over 300 students at USC for Fall 2021.
- Mentored a team of 3 for development of functionalities in the Admin Dashboard for Server Management Portal at Wipro Ltd.