Gautam Pranjal

pranjal@usc.edu | (213)284-9645
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 (NSIT), University of Delhi, India **May 2018**
Bachelor of Engineering, Information Technology (First Class with Distinction) CGPA: 8.85/10

TECHNICAL SKILLS

Programming Language: Python, PHP, C++
Web Technologies: HTML, CSS, JavaScript, JSON, jQuery, Bootstrap, Flask, PHP
Databases: MySql, SqlLite, phpMyAdmin
Cloud Technologies: Google Cloud Platform (Virtual Machines), Azure (PMT), AWS (EC2)
Toolkits: Git, Jira, RobotStudio, Azure DevOps, Azure Pipelines, Jenkins
Scripting: Batch Scripting, Shell Scripting

PROFESSIONAL EXPERIENCE

University of Southern California, Los Angeles, USA **August 2021-Present**
Course Producer

- Assisting Professor for a graduate-level course, Foundations of Artificial Intelligence, delivering course curriculum, tutoring, advising, and grading for 300 students.

Wipro Limited, Bengaluru, India
Sr. Project Engineer **July 2018–January 2021**
Server Management Portal

- Designed and developed the end-to-end structure of the 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 used phpMyAdmin for SQL.
- Wrote shell scripts to gather resource utilization and jobs status for EC2 instances.
- Mentored a team of 3 for development of functionalities for the Admin Dashboard.

SAP-DevOps

- Implementing 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 connecting them to developer's IDE using APIs made via Python and Flask for automated testing.
- Reduced the R2D time down 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.
- Worked on functions to collect robot's data, process, store, and display the data as part of HMI screens.
- Simplified the view and access of the Robot data using only a single application for the engineers.

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 time from gathering logs to storage by 20%.

PROJECTS

First Order Logic Resolution: Aim of the project was to take in 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: Aim of the project was to output the best possible valid move for a given checkers board.

- Implemented an AI agent using Python using Minimax algorithm.
- Improved efficiency by adding Alpha-beta pruning to increase search depth till level 7.

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

- Developed Python script to downloaded 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 for the scheme used and improving them. [Undergraduate: Minor Project]