ARYAN JAIN

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EDUCATION

PURDUE UNIVERSITY, West Lafayette, IN   *Dec 2024*
B.S. COMPUTER SCIENCE   *Cumulative GPA: 3.97 / 4.00*
Relevant Coursework: Cryptography, Analysis of Algorithms, Systems Programming, Information Systems, Data Structures and Algorithms, Computer Architecture, Problem Solving and Object-Oriented Programming

SKILLS

Tools / Others   Unix, Linux, GitHub, Git, Bash, Latex, Agile Project Management
Programming Languages   Java, Python, C, SQL, MySQL, SQLite, ARMS Assembly, Arduino, HTML, CSS, R, C++

EXPERIENCE

CS 252 - Systems Programming   *Purdue University*
UNDERGRADUATE TEACHING ASSISTANT   *May 2023 – Present*
- Supervised labs and graded student exams and submissions weekly for more than 40 students.
- Assisted students with lab projects - malloc, bash, shell script, and HTTP web server implementation.

CS 251 - Data Structures and Algorithms   *Purdue University*
UNDERGRADUATE TEACHING ASSISTANT   *May 2023 - Present*
- Assisted students with coding projects and homework assignments.
- Answered students' questions on the online course discussion platform Ed.

RESEARCH

Rosen Center for Advanced Computing, Dr. Amiya Maji   *Purdue University*
STUDENT RESEARCHER   *Aug 2022 – Present*
- Created a new framework using Microsoft Presidio that identifies and anonymizes system logs that can be used for failure detection or diagnosis.
- Researched queries useful for executing standard actions from the data collected using XALT, a powerful tool to track the usage of an HPC Cluster.
- Created a guide on using the HPL benchmark and trained to perform different types of benchmarking.

Webee (Data Mine Learning Community)   *Purdue University*
UNDERGRADUATE RESEARCHER   *Aug 2022 - Dec 2022*
- Contributed to finding a way to track assets inside facilities which cannot be tracked easily with GPS.
- Analysed and parsed datasets to perform triangulation and trilateration of asset devices.
- Refined skills in analyzing, handling, and processing data sets in Python using CSV and pandas packages.

Summer Undergraduate Research Fellowship (SURF), Prof. Aravind Machiry   *Purdue University*
UNDERGRADUATE RESEARCHER   *May 2022 - Aug 2022*
- Tested the framework implementing AFL Fuzzer to find common security issues in student submissions in programming courses using Bash Scripts.
- Created and conducted experiments using GitHub workflows that found crashes in 80% of assignments that had no crashes when tested using the conventional method.

PROJECTS

BOILERMAKER AIRLINES (JAVA, DATA STRUCTURES AND ALGORITHMS)   *Dec 2022*
- Built to determine the most efficient flight route for departure and arrival among different airports and regions using Dijkstra and Kruskal's Algorithm.

JJ FINANCE - STOCK BASED WEB APPLICATION (PYTHON, HTML, CSS, FLASK)   *May 2020 - Aug 2020*
- Implemented to assist beginners in Stock Market by allowing practice of Stock Trading and enabling monitoring of stock values before utilizing real money.

INVOLVEMENT

BoilerMake (Executive Board - UX Team), Purdue University   *Apr 2022 - Present*
LaunchPad (Student Mentor), Purdue University   *Apr 2022 - Present*