ARYAN JAIN

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EDUCATION

Purdue University, West Lafayette, IN *Aug 2021 – Dec 2024*
Bachelor of Science in Computer Science **Cumulative GPA: 3.97 / 4.00**

Coursework: Computer Security, Operating Systems, Cryptography, Analysis of Algorithms, Information Systems, Systems Programming, Data Structures and Algorithms, Computer Architecture, Object-Oriented Programming, Statistical Methods, Linear Algebra

TECHNICAL SKILLS

Languages: Java, Python, C, SQL, MySQL, SQLite, ARMS Assembly, Arduino, HTML, CSS, R, C++
Developer Tools: Git, GitHub, Unix, Linux, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ

EXPERIENCE

Undergraduate Teaching Assistant *May 2023 – Present*
CS 251 - Data Structures and Algorithms, CS 252 - Systems Programming
- Conducted weekly office hours and assisted over 400 students with coding projects and homework.
- Supervised labs, graded student assignments, and answered questions on online course discussion platforms.

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

Undergraduate Researcher *Aug 2022 – Dec 2022*
Webee (Data Mine Learning Community)
- Collaborated to develop a way to track assets inside facilities that cannot be found 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 Intern *May 2022 – Aug 2022*
Summer Undergraduate Research Fellowship (SURF), Prof. Aravind Machiry
- Tested framework implementing AFL Fuzzer to find common security issues in student submissions in programming courses using Bash Scripts.
- Designed and conducted experiments using GitHub workflows that found crashes in 80% of assignments without crashes when tested using conventional method.

PROJECTS

Boilermaker Airlines | *Java, Dijkstra's Algorithm, Kruskal's Algorithm*
- Built to determine most efficient flight route for departure and arrival among different airports and regions.

Stock Market Simulator | *Python, HTML, CSS, Flask*
- Implemented a web application to provide financial information, business news, and stock market data.
- Devised to simulate trading in real world for beginners to gain experience without spending money.

Shell Implementation | *C, C++, Lex, Yacc*
- Shell interpreter which combines behaviors from common shells including bash and csh.
- Incorporated features such as line editing, signal handling, wildcarding, subshell, and more.

INVOLVEMENT

Boilermake | *Executive Board - UX Team* *Apr 2022 – Present*
LaunchPad | *Student Mentor* *Apr 2022 – Present*