

ARYAN JAIN

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EDUCATION

Purdue University West Lafayette, IN

Dec 2024

Bachelor of Science in Computer Science

Cumulative GPA: 3.96/4.00

Relevant Coursework: Systems Programming, Information Systems, Data Structures and Algorithms, Computer Architecture, Problem Solving and Object-Oriented Programming, Foundations of Computer Science, Programming in C

SKILLS

Programming Languages: Java, Python, C, SQL, MySQL, SQLite, ARMS Assembly, Arduino, HTML, CSS, R, C++

Tools/Others: Unix, Linux, GitHub, Git, Bash, Latex, Agile Project Management

WORK EXPERIENCE

**Student Service Research Support Dev
Rosen Center for Advanced Computing**

Aug 2022 – Present, Mar 2022 – May 2022

Purdue University

- Assigned to the CCRI Project with Prof. Saurabh Bagchi and Dr. Amiya Maji.
- Tasked for setting up XDMoD/Supremm/XALT data analysis pipeline.
- Objective of project is to analyse cluster utilization data to make better decisions while serving users.
- Trained to utilize Unix and Linux-based systems, to write bash scripts and perform benchmarking.

Undergraduate Researcher

Aug 2022 – Dec 2022

Webee (Data Mine Learning Community)

Purdue University

- Collaborated with company “Webee” and other students on “Indoor Asset Tracking” project.
- Project proposed a better way to pinpoint location of devices inside facilities which cannot be tracked easily with GPS.
- Analysed and parsed beacon-gateway datasets to perform triangulation and trilateration of asset devices.
- Improved skills in analysing, handling and processing data sets in Python using CSV and pandas packages.

Undergraduate Researcher

May 2022 – Aug 2022

Summer Undergraduate Research Fellowship, Prof. Aravind Machiry

Purdue University

- Contributed to research project, "Gamification of Security Education in Programming Courses", aimed to create an efficient way of finding common security issues in student submissions using Fuzzing.
- Conducted experiments on workflows with 15 datasets with over 200 student submissions each and added features to framework.
- Developed skills in Fuzzing, Linux-Based Systems, writing Bash Scripts, and running GitHub workflows.
- Presented research paper at the SURF Summer Symposium 2022.

PROJECTS

Boilermaker Airlines (Java, Data Structures and Algorithms)

Dec 2022

- Built for CS 251 - Data Structures and Algorithms, to determine most efficient flight route for departure and arrival among different airports and regions.
- Implemented using Dijkstra and Kruskal's Algorithm.

Learning Management System (Java, GUI, Concurrency)

Nov 2021 – Dec 2021

- Collaborated with other students to develop a client-server-based GUI using Java Swing, Concurrency and Network I/O for real-time updates for college coursework.
- Featured a password-based login system, enables instructors to create courses, quizzes, and students to attempt quizzes and view scores.

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.

HONORS

Dean's List and Semester Honors

Fall 2022, Spring 2022, Fall 2021

Computer Science Scholarship

Mar 2022

Phi Kappa Psi's Dennis J. Schwartz Scholarship

Sep 2021

INVOLVEMENT

BoilerMake (Executive Board - UX Team), Purdue University

Apr 2022 – Present

LaunchPad (Student Mentor), Purdue University

Aug 2022 – Present

Hello World Hackathon (Student Mentor), Purdue University

September 2022