

AARUNI GUPTA

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Education

Purdue University

Bachelor of Science in Computer Science (GPA: 4.0)

December 2026

West Lafayette, Indiana

Relevant Coursework: Systems Programming, Computer Security, Data Structures & Algorithms, Computer Architecture, Object-Oriented Programming, Programming in C, Database Technology

Experience

Teaching Assistant – C Programming (CS 240)

Purdue University – Computer Science Department

January 2025 – Present

West Lafayette, Indiana

- Graded assignments to enforce coding standards and readability, providing targeted feedback to improve code quality.
- Led weekly labs and office hours to assist **700+** students with C programming concepts, including memory management, custom data structures, and debugging.

Data Science Researcher (Raytheon)

Purdue Data Mine

August 2024 – Present

West Lafayette, Indiana

- Built an AI system to automatically detect 5G / LTE interference in real-time radio frequency signals for use by federal radar systems, using **Agile** principles in a team of **10+** for efficient collaboration and software testing.
- Developed a full stack application using the **ReactJS** front-end framework and **Flask's** back-end components to launch an interactive web application to serve the AI model to users.

Software Engineering Intern

BayOne Solutions

May 2024 – August 2024

Pleasanton, California

- Designed and developed tools to refine the recruitment process by generating candidate assessment summaries in production using AI computer vision and audio libraries like **OpenCV** and **PyAudio**.
- Reduced false positive error rate in face identification, object detection, and speech diarization by **75%** with optimizations / parameter adjustments through libraries such as **PyTorch** and **SciPy**.

Software Engineering Intern

Technix Tech

June 2022 – August 2023

Alviso, California

- Deployed an end-to-end website with custom designs for a fast-paced data integration start-up in Silicon Valley.
- Designed engaging interfaces to streamline client communication with clients such as DocuSign and Google Nest.
- Automated data organization and analysis with **SQL** scripts, decreasing the average debugging time by up to **50%**.

Projects

What's Up Boiler Up | *JavaScript, Fetch, HTML, CSS*

September 2023

- Engineered a **Javascript** web-scraping application to gather **100+** Purdue events data in real time through **Fetch** API.
- Leveraged the **Leaflet** map library to display upcoming events on an interactive map of Purdue's campus.
- Employed **Github** pages to publicly host on WhatsUpBoilerUp.com for Purdue students.

Used Phone Database | *SQL, PHP, XAMPP*

May 2022

- Generated an interactive form to access SQL database to manage used phone records for potential business applications.
- Implemented an **SQL** table to sort by ID, model, cost, color, and pre-ownership.

Technical Skills

Languages: C, C++, Python, R, Bash, Java, HTML/CSS/JS, PHP, SQL, MATLAB, x86-64 Assembly

Developer Tools: WSL, VSCode, Vim, PowerShell, MongoDB

Technologies/Frameworks: React, Flask, MySQL, Git, PyTorch

Community Involvement

Code in Place Section Leader

Stanford University

April 2024 – May 2024

Palo Alto, California

- Engaged a cohort of 10+ students in weekly interactive lessons through Stanford's Code in Place program.
- Provided comprehensive instruction in topics such as animations, graphics, and control flow in Python.