

Aarna Joshi

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[LinkedIn](#)

EDUCATION

University of Delaware

Bachelor in Computer Science, CGPA: 3.3

Dean's List- Fall 2023, Spring 2025

Newark, DE

Expected: May 2027

SKILLS

Languages: Python, Typescript, C++, HTML, CSS, MySQL, Operating Systems: Windows, Unix

Related coursework: Algorithms, Data structures, Systems programming, Operating systems, Machine learning, Discrete math, Calculus,

Database systems- SQL, Software engineering

Software: Command Line (Bash), SSH, Git, MS Office, Visual Studio

WORK EXPERIENCE

University of Delaware, Undergraduate Admissions

October 2025- Present

Blue Hen Application Manager, Fall 2025

- Performed data entry and record management in Slate and UDSIS supporting the efficiency and integrity of the undergraduate admissions process.

University of Delaware, Biden School of Public Policy and Administration

May-September 2025

Sustainability intern

- Conducted comprehensive data analysis on EV usage, charging station performance, and fleet optimization. Researched policy trends, funding and technology solutions to support the transition to low-emission transportation.
- Designed a report and presentation for a potential pilot program for electric campus buses.

University of Delaware, Biden School of Public Policy and Administration

February- May 2025

Intern, Law & AI Flood Research

- Used machine learning, text mining, and AI tools to automate and scale the process of reviewing town laws
- Efficiently extracted and compiled data into desired excel format

University of Delaware, Department of Computer & Information Sciences

August 2024- May 2025

Teaching Assistant, Introduction to Computer Science

- Facilitated Python programming classes for 50+ students, covering functions, data structures, and recursion
- Provided mentorship on problem-solving techniques, software design, and computational thinking

RELATED PROJECTS

Loan amortization calculator

2025

- Engineered an interactive loan calculator using TypeScript, HTML, and CSS, delivering precise amortization schedules
- Generated accurate amortization schedules and loan payment breakdowns
- Designed a responsive interface improving calculation efficiency and usability

Raspberry pi projects

2023-24

- Built hardware and embedded software projects, including a binary clock, integration between physical components
- Implemented assembly programs for integer multiplication, screen manipulation, and joystick-controlled movement
- Developed a binary clock demonstrating hardware–software interaction

Python algorithms

2023-24

- Developed a Galaga-style arcade game in Python implementing object-oriented design and collision logic
- Encryption & Decryption Algorithm: Implemented hashing algorithms for secure data processing

Library management system

2023

- Designed a backend system using Python and MySQL for managing book inventory and user records
- Implemented database queries for efficient search and record management