

# Aryan Patel

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## EDUCATION

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**University of Illinois at Urbana-Champaign**

August 2021 – May 2025

*B.S in Computer Science & Statistics*

Cumulative GPA: 3.63/4.00

## EXPERIENCE

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**Full-Stack Software Engineer Intern | Shipfusion**

June 2024 – August 2024

- Developed and integrated new features within an MVC architecture using **PHP**, **JavaScript**, and **MySQL**, to streamline workflows and automate key processes
- Optimized existing code to improve user efficiency and overall productivity by 15%

**Software Engineer Intern | Optum**

June 2023 – August 2023

- Developed logic for a tool called TRAC-IT to consolidate and track over 250k assets within the enterprise
- Integrated and developed **Python** scripts to identify and match IP addresses/subnet masks to site codes of validated assets achieving a success rate above 90%

**Course Assistant (CS 124) | University of Illinois at Urbana-Champaign**

June 2022 – December 2023

- Tested and helped develop a mobile course explorer application using **Java** allowing users to find, add, and view courses within the school
- Served as a guide for over 800 students working with **Java** coding assignments and projects

## PROJECTS

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**Personal Portfolio** ([aryanpatel31.netlify.app](https://aryanpatel31.netlify.app)) | *React.js, Next.js, HTML, Tailwind CSS*

March 2024

- Created a personal portfolio to showcase past projects and web development skills

**Social Media App** | *React.js, Node.js, Express.js, MongoDB*

February 2024

- Full-stack implementation of a social media app allowing users to create accounts, post pictures, and interact with one another
- Implemented login and authentication with Bcrypt and JSON Web Tokens ensuring secure user sign-in

**Memory Allocator** | *C*

February 2024

- Implemented a First Fit model for memory allocation and Immediate Coalescing for freeing memory achieving above 92% optimization compared to the official glibc implementation

**UIUC Muslim Student Association Website** | *JavaScript, HTML, CSS*

May 2023

- Created the official UIUC Muslim Student Association Website to be used by over 1000 members for updates and news

**K-means Clustering Model** | *Python*

March 2022

- Created a k-means clustering model highlighting areas of increased violence within the Chicago area
- Used data on violence and clustered crime into categories based on severity to separate regions and create potential hot spots

## SKILLS

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**Languages:** JavaScript, PHP, Python, C, C++, Java, HTML, CSS

**Libraries/Frameworks:** React.js, Next.js, Node.js, Express.js, Tailwind CSS

**Technologies/Databases:** MySQL, MongoDB, Git, Docker, VS Code, Android Studio