

Aryan Patel

aryanpatel31@yahoo.com • (847) 946-3497 • [linkedin.com/in/aryanpatel10](https://www.linkedin.com/in/aryanpatel10) • github.com/aryanp31

EDUCATION

University of Illinois at Urbana-Champaign

Expected Graduation: May 2025

B.S in Computer Science & Statistics

Cumulative GPA: 3.70/4.00

EXPERIENCE

Technology Development 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
- Acted as a mentor for 10 new Course Associates by teaching the process of guiding a student through **Java** coding assignments and projects

PROJECTS

Personal Portfolio (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

- Created a Memory Allocator mimicking the functionality of malloc
- 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

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

Frameworks: React.js, Next.js, Node.js, Express.js, MongoDB, Tailwind CSS

Tools: Git, Docker, VS Code, Android Studio