

Aryan Patel

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EXPERIENCE

Software Engineer | Ritchie Bros.

July 2025 – Present

- Developed and maintained backend services in **Java** for an asset lifecycle management platform handling millions of records
- Designed and optimized data storage and search workflows using **PostgreSQL & OpenSearch** to support scalable querying and analytics
- Deployed and operated cloud-native microservices using **AWS & Kubernetes** and a **CI/CD** pipeline

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%

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

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

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

EDUCATION

University of Illinois at Urbana-Champaign

August 2021 – May 2025

B.S in Computer Science & Statistics

Cumulative GPA: 3.63/4.00

SKILLS

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

Libraries/Frameworks: Spring Boot, JUnit, React.js, Next.js, Node.js, Express.js, Tailwind CSS

Technologies/Databases: AWS, Kubernetes, Docker, Helm, Kafka, OpenSearch, PostgreSQL, MySQL, MongoDB, Git, Gradle, CI/CD, CircleCI, PactFlow, LaunchDarkly