

Amir Badrudeen

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EDUCATION

City University of New York at Brooklyn College | Brooklyn, NY

Dec 2024

B.S. in Computer Science

- Courses:** Intro to Java · Modern Programming Techniques · Data Structures & Algorithms · Operating Systems · Discrete Structures · Programming Paradigms in C++ · Web App Development · Computer Graphics · Software Engineering · Computers & Ethics · Computer Architecture
- Honors:** 3x Dean's List

TECHNICAL SKILLS

Languages (ordered by proficiency): TypeScript, JavaScript, Python, HTML, CSS, Java, C++, C, SQL
Tools and Frameworks: Next.js, React.js, React Native, Docker, Git, Nginx, Expo, AWS, Firebase, Node.js

EXPERIENCE

Celebrity Moving | New Hyde Park, NY

Aug. 2022 - Present

Junior Software & Systems Assistant

- Developed and maintained **warehouse database system** features to improve **inventory tracking, error prevention, and data accuracy**, enabling faster workflows and reduced discrepancies.
- Contributed to updates and enhancements on the **company website**, improving **usability** and **client-facing functionality** while gaining hands-on experience with **front-end and back-end development**.
- Implemented **workflow optimizations** by analyzing bottlenecks in warehouse operations, applying **process automation concepts** to improve efficiency.
- Created and maintained **documentation** for technical processes, data workflows, and website changes, aligning with industry practices in **knowledge sharing** and **version control**.
- Assisted with **hardware/software troubleshooting** and **system configuration**, bridging support responsibilities with **technical engineering solutions**.
- Collaborated with cross-functional staff, translating **operational needs into technical solutions**, mirroring the **requirements gathering** and **iterative testing cycle** common in software development.
- Applied **problem-solving and debugging skills** in both physical workflows and digital systems, reinforcing habits of **accuracy, reliability, and continuous improvement**.

PROJECTS

Homelab Infrastructure | Self-Directed Project

July 2025 - Present

- Designed and deployed a home server using **Docker, Linux** and **virtualization technologies** to host applications including media servers (**Jellyfin**), monitoring tools (**Uptime Kuma**), DNS filtering (**AdGuard**), a self-hosted search engine (**SearXNG**) and many others!
- Implemented secure networking practices with **Cloudflare Tunnels, VPN containers** and **firewall rules** to simulate **production-grade environments**.
- Troubleshooted container **networking, optimized storage** and **system resources**, and gained hands-on experience with **virtualization, networking** and **DevOps** best practices.

PortfolioHub React Native Mobile App | Academic Capstone Project

Aug. 2024 - Jan. 2025

- Developed a cross-platform mobile application using **Expo** and **React Native**, enabling users to track stock investment goals, monitor dividend income and receive the latest stock news.
- Designed and implemented a clean, intuitive **UI/UX** interface.
- Integrated **RESTful APIs** for seamless data retrieval and synchronization, **reducing** app load times by **30%**.
- Implemented **secure user authentication** using **Firebase Authentication** and **Firestore** for data storage.
- Led a team in an **Agile** environment, conducting **code reviews** and **optimizing** app performance.