

# Aryan Kharva

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## EDUCATION

### The University of North Carolina at Charlotte

Expected Graduation: August 2025

Bachelor of Science in Computer Science, Minor in Mathematics | GPA: 3.7/4.0

Leadership & Involvement: Charlotte Mentor Collective (Mentor), South Asian Student Association (Member)

## PROJECTS

### Personal Portfolio Website | Personal Project

May 2025

Technologies used: *React, HTML/CSS, JavaScript, Netlify, EmailJS*

- Designed and developed a fully responsive portfolio showcasing projects, skills, and contact form functionality using EmailJS.
- Implemented a clean, minimal UI with smooth scroll, routing, and interactive elements to highlight frontend capabilities and UX focus.

### DribbleData | Class Project

May 2025

Technologies used: *Flask, Python, JavaScript, HTML/CSS, Chart.js, OpenAI API, Jinja*

- Built an interactive web app to compare NBA player stats using dynamic Chart.js visualizations and templated views with Jinja and HTML/CSS.
- Integrated an OpenAI-powered chatbot for natural language player queries, led frontend design, and improved UX with autocomplete and responsive layout adjustments.

### Spin City Market | Personal Project

April 2025

Technologies used: *Node.js, Express.js, AWS (MongoDB Atlas), EJS, JavaScript, Multer*

- Designed a vinyl record marketplace with search, filtering, and offers using EJS templates and Express routes; implemented secure image uploads with Multer.
- Built full-stack features including user auth, session handling, and MVC architecture; deployed using MongoDB Atlas on AWS.

### Apartment Management Website | Class Project

November 2024

Technologies used: *HTML/CSS, JavaScript, Tailwind CSS, Node.js, Express.js, AWS (MongoDB Atlas)*

- Developed a responsive frontend for user registration, unit listings, and maintenance requests using Tailwind CSS and JavaScript.
- Implemented backend logic with Express, secured endpoints with authentication, and tested APIs using Jest and SuperTest.

## EXPERIENCE

### Undergraduate Researcher | UNC Charlotte | Charlotte, NC

January 2025 - Present

- Developing an mHealth chatbot using RAG with Llama 2 and OpenAI for HIV-related care, contributing to a research initiative with potential for academic publication.
- Built a document ingestion and prompt pipeline, increasing chatbot accuracy and reducing response time by ~35%.
- Collaborating with a graduate researcher to deploy the solution in a mobile app for clinical pilot testing.

### Development Intern | Sirius Support | Remote

August 2024 – November 2024

- Developed internal HR tools with AI-powered features to automate performance tracking for 200+ employees, reducing manual workflows by ~40%.
- Contributed to frontend development and optimized deployment workflows with GitHub Actions CI/CD pipelines, cutting release cycles by 30%; gained exposure to AWS and SaaS infrastructure.

### Instructional Assistant | UNC Charlotte | Charlotte, NC

January 2024 – May 2024, January 2025 – May 2025

- Supported 80+ students in Spring 2024 and 115+ in Spring 2025 across Logic & Algorithms and Human-Centered Computing, assisting with logic proofs, algorithm analysis, and finite state machines.
- Led recitations and office hours, clarified discrete math concepts, and improved exam prep participation by 40% through targeted review sessions and 1:1 tutoring.

## TECHNICAL SKILLS

**Languages & Web Tech:** HTML5, CSS3, JavaScript (ES6+), TypeScript, Python, SQL, C# (basic), PHP (basic)

**Frameworks & Libraries:** React, Vue, Angular (basic), Node.js, Express.js, .NET (basic), GraphQL, Flask, Chart.js, Tailwind CSS, Bootstrap, EJS

**Cloud & DevOps:** AWS (Cloud Practitioner Certification – In Progress), Azure (basic), Docker, GitHub Actions

**Tools:** Git, Figma, Postman, MongoDB Atlas, RESTful APIs, Jest, SuperTest, CI/CD pipelines, Agile

**Certifications:** Responsive Web Design (freeCodeCamp), JavaScript Algorithms and Data Structures (freeCodeCamp)