Aryan Kharva

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EDUCATION

The University of North Carolina at Charlotte **Expected Graduation: May 2026**
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 **June 2025**
Technologies used: *React (Next.js), TypeScript, Tailwind CSS, Framer Motion, Netlify, EmailJS*
- Developed a responsive portfolio using React (Next.js) and TypeScript to showcase projects, skills, and contact functionality via EmailJS.
- Implemented clean UI with Tailwind CSS and Framer Motion animations; deployed to Netlify with optimized routing and image handling.

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*
- Built RESTful APIs, search/filter logic, and image upload functionality using Multer; implemented session-based user auth and role-based access control.
- Structured the app using MVC architecture, integrated MongoDB Atlas for data persistence, and applied robust error handling middleware.

Apartment Management Website | Class Project **November 2024**
Technologies used: *HTML/CSS, JavaScript, Tailwind CSS, Node.js, Express.js, AWS (MongoDB Atlas)*
- Developed CRUD routes for tenant applications, unit listings, and maintenance requests; implemented user authentication and role checks.
- Tested backend endpoints using Jest and SuperTest to ensure API reliability and data validation.

EXPERIENCE

Undergraduate Researcher | UNC Charlotte | Charlotte, NC **January 2025 - Present**
- Developing an mHealth chatbot using RAG with Llama 2 and OpenAI to improve access to HIV care, supporting a research project with publication potential.
- Built a document ingestion and prompt pipeline that reduced latency by ~35% and improved contextual accuracy, with deployment planned for a mobile pilot study in clinical settings.

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%.
- Implemented frontend components and backend routes using JavaScript, Node.js, and RESTful APIs; collaborated in Agile sprints.
- Integrated GitHub Actions CI/CD pipelines, reducing deployment time by 30%, and contributed to AWS-based deployment workflows.

Instructional Assistant | UNC Charlotte | Charlotte, NC **January 2024 – May 2024, January 2025 – May 2025**
- Supported 195+ students in Logic & Algorithms and Human-Centered Computing, reinforcing algorithm analysis, finite state machines, and UI evaluation methods.
- Led office hours and exam reviews; clarified logic proofs and complexity analysis while reviewing technical deliverables for quality and correctness.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL, HTML5, CSS3, PHP, C#, C++
Frameworks & Libraries: Node.js, Express.js, React, Next.js, Vue, Angular, Flask, .NET, EJS, GraphQL
Cloud & DevOps: AWS (Cloud Practitioner – In Progress), Docker, GitHub Actions, MongoDB Atlas, Azure
Tools & Practices: Git, REST APIs, Jest, SuperTest, CI/CD, Agile, Figma, Postman
Certifications: Responsive Web Design (freeCodeCamp), JavaScript Algorithms & Data Structures (freeCodeCamp)