Aryan Kharva

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ABOUT ME

Computer science student passionate about web and frontend development, with growing interest in emerging fields like NLP and AI. Experienced as an Instructional Assistant, helping students grasp complex computational concepts. Driven by curiosity, research, and a desire to build impactful, user-centered solutions through technology.

EDUCATION

The University of North Carolina at Charlotte | Charlotte, NC
Bachelor of Science in Computer Science | GPA: 3.7/4.0 | **Awards:** Chancellor's List Spring 2024, Fall 2024, Spring 2025

SKILLS

Programming Languages: Python (Advanced), HTML/CSS, (Advanced), Java (Advanced), JavaScript (Advanced), C (Advanced), SQL (Advanced), Assembly (Intermediate), C++ (Intermediate), Ruby (Beginner).
Other: MERN stack (MongoDB, Express.js, React.js, Node.js), React, React Native, Penetration Testing (OWASP Top 10, Scripting, Injection Attacks, Burp Suite), Data Visualization (Tableau, PowerBI), GitHub, Agile Practices, Cloud (AWS, Azure), Kubernetes, Hadoop, Design (Figma, Penpot, Balsamiq), Certified Microsoft Office Specialist, Adobe Certified Professional, CAD (Onshape, Autodesk Inventor).

PROJECTS

DribbleData | Class Project   **May 2025**
- Built an interactive NBA analytics app using Flask, Chart.js, and Jinja templates for player stats comparison.
- Developed an OpenAI-powered chatbot for natural language player queries, leveraging GenAI research experience.
- Led frontend design and assisted teammates in debugging and implementing autocomplete and data visualizations.

Spin City Market | Personal Project   **April 2025**
- Developed a full-stack vinyl marketplace using Node.js, Express.js, and MongoDB to support item creation, editing, and deletion, with search and filter functionality powered by regex queries.
- Implemented image upload and storage using Multer, allowing users to submit vinyl listings with images saved to a public directory and dynamically displayed through EJS templates.
- Structured the app using an MVC architecture, separating concerns across routes, controllers, and models, and added robust error handling through custom middleware in Express.

Apartment Management Website | Class Project   **November 2024**
- Developed a tenant-management web application enabling user authentication, tenant applications, unit listings, and maintenance requests.
- Implemented front-end features using HTML, CSS, JavaScript, and Tailwind CSS, and back-end functionality with Node.js, Express.js, and MongoDB Atlas.
- Conducted black-box and unit testing with Jest and SuperTest to ensure robust API endpoints.

EXPERIENCE

Undergraduate Researcher | UNC Charlotte | Charlotte, NC   **January 2025 - Present**
- Building an mHealth chatbot using RAG with Llama 2 and OpenAI to support HIV-related queries.
- Developed a pipeline for document ingestion, prompt templating, and contextual response generation.
- Collaborating with a graduate researcher to integrate and test the chatbot within a mobile app.

Development Intern | Sirius Support | Remote   **August 2024 – November 2024**
- Collaborated with cross-functional teams to enhance service features and software tools.
- Designed HR systems and built AI-driven solutions for employee management.
- Gained hands-on experience with SaaS platforms and cloud technologies.

Instructional Assistant | UNC Charlotte | Charlotte, NC   **January 2024 – May 2024 | January 2025 – May 2025**
- Led discussions and provided support in Logic & Algorithms and Human-Centered Computing.
- Taught foundational concepts in algorithms, complexity, and interface design.
- Strengthened skills in Figma, prototyping, and user-focused UI/UX practices.

CERTIFICATIONS

Responsive Web Design Certification | **Date of Achievement: February 20, 2024**
JavaScript Algorithms and Data Structures Certification | **Date of Achievement: May 1, 2024**