

ALI CHUGHTAI

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Education

University of North Carolina at Charlotte

Aug. 2022 – May 2026

Bachelor of Science in Computer Science, Concentration in Cybersecurity

Charlotte, NC

GPA: 3.85

Relevant Coursework

Courses: Data Structures and Algorithms, Database Design and Implementation, Web-based Application Design and Development, Introduction to Information Security and Privacy, Network-Based Application Development

Technical Skills

Languages: Java, Python, HTML/CSS, MySQL

Technologies/Frameworks: AWS, GitHub, JUnit, Flask,

Certifications: AWS Certified Cloud Practitioner

Experience

theCoderSchool

May 2024 – present

Coding Instructor

Raleigh, NC

- Led and facilitated Python programming camps for children aged 8 -14 as the sole instructor, generating a 50% increase in course projects completed.
- Designed customized lesson plans based on child skill levels and age-specific interests, as well as debugged code errors to maximize efficiency and generate increased learning outcomes.
- Maintained open communication with parents, ensuring transparency regarding their child's progress and addressing inquiries effectively.

Projects

To-Do List App | *Python, Javascript, HTML/CSS, MySQL, Flask*

- Developed a to-do list application with Flask, utilizing HTML, CSS, and JavaScript to create a user-friendly interface and improve task management efficiency.
- Implemented security measures, such as hashed password authentication, to protect user credentials and data privacy.
- Utilized SQLite for backend database architecture, optimizing data storage, retrieval processes, and integrating Python SQL models for scalable application functionality.

Prayer Pulse | *Javascript, HTML, CSS*

- Designed and Developed an Islamic faith-based web application using HTML, CSS, and JavaScript.
- Leveraged JavaScript for Google Gemini API integration, creating a conversational assistant within the webpage, and incorporated the Aladhan API for dynamic prayer time displays.

Port Scanner | *Python*

- Engineered a multi-threaded network port scanner in Python for enhanced network troubleshooting and vulnerability detection.
- Implemented network socket programming for open port detection on a target IP address within a specified range.
- Generated a 90% increase in port scanning efficiency by leveraging concurrent execution with the threading module, distributing port scanning tasks across 100 threads.

GPA Sort and Eligibility | *Java*

- Developed a scholarship eligibility identification system, incorporating object-oriented principles such as inheritance, interfaces, and polymorphism.
- Applied CSV file operations, processing over 150 member profiles to enhance data handling and scholarship eligibility.

Leadership / Extracurricular

Pakistani Student Association

May 2024 – Present

Outreach Chair

University Of North Carolina at Charlotte

- Facilitated cultural community events by hosting distinguished speakers, including the Pakistani Ambassador to the US on campus, promoting meaningful dialogue in the university setting.
- Cultivated relationships with university organizations, organizing and overseeing collaborative events to enhance engagement and foster new partnerships.

Delta Sigma Iota Fraternity Inc.

Fall 2022 – Present

Treasurer

University Of North Carolina at Charlotte

- Managed member dues and financial records, ensuring accurate accounting and timely collection to support organizational operations.
- Coordinated event planning to increase community engagement, contributing to increased recruitment.