

EDUCATION

Bachelor of Science in Computer Science, East Carolina University **May 2024**

Master of Science in Data Science/Machine Learning, East Carolina University **May 2025**

SKILLS

Technologies: GitHub, NodeJS, Docker, Solr, Jupyter Notebook, ExpressJS

Languages: C++, Python, Java, JavaScript, HTML, CSS, R, Prolog, PostgreSQL, SQL, ReactJS

Coursework: Data Structures and Algorithms, Object Oriented Programming, Design and Analysis of Algorithms, Machine Learning, Database Systems, Software Engineering, Information Extraction and Retrieval, Big Data Analytics and Management

EXPERIENCE

Lead Research Assistant - East Carolina University **August - December 2023**

- Collaborated with a Department of Defense client on an application focused on leveraging bulk data for enhanced decision-making capabilities.
- Coordinated regular meetings with colleagues to discuss project objectives, milestones, and challenges, fostering a collaborative environment that encouraged open communication and shared insights.
- Conducted and led presentations to stakeholders, effectively communicating project progress, key achievements, and addressing any concerns or questions.

Teaching Assistant - East Carolina University **March 2022 - Present**

- Solely responsible for instructing and mentoring 20-40 beginner computer science students, providing comprehensive lessons on fundamental concepts in C/C++ programming languages.
- Conducted regular assessments, graded assignments, and provided constructive feedback to support student learning and development.
- Attended and actively contributed to professional development meetings, collaborating with colleagues to discuss student progress, share best practices, and refine instructional strategies.

IT Service Desk Specialist - East Carolina University **October - August 2023**

- Conducted troubleshooting to resolve hardware and software issues for ECU students, faculty, and staff.
- Acted as a single point of contact for managing telecommunications, networking, and other services from installation to maintenance.

PROJECTS

ECUQuestCS - ReactJS, NodeJS, PostgreSQL - <https://github.com/GrantMelvin/ECUQuestCS>

- **User Authentication:** Implemented user account creation and login functionality stored in a PostgreSQL database through React.
- **Interactive Learning:** Enabled users to answer computer-science-related question sets retrieved from a PostgreSQL database
- **Solution Analysis:** Provided functionality to analyze the following solutions from different question sets, enhancing the learning experience.
- **Topic-based Recommendations:** Implemented a feature to view articles based on recommended topics derived from previous question performance.