**Grant Melvin**

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# 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

**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**](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.