

## EDUCATION

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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

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**Technologies:** GitHub, NodeJS, Docker, Solr, Jupyter Notebook, ExpressJS, Github Workflows, CI/CD Pipelines, AWS EC2, AWS RDS

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

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

## EXPERIENCE

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

- 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

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**ECUQuestCS - ReactJS, NodeJS, AWS RDS** - <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 an AWS 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.