

EDUCATION

Rutgers University, Newark, NJ

Expected graduation: May 2026

Bachelor of Science in Computer Science, GPA 3.820

Honors: Honors Living Learning Community Scholar, Tau Sigma Honor Society, National Society of Learning and Success

Coursework: Advanced Data Structures, Calculus 3, Programming Language Concepts, Intensive Programming, Probability and Statistics

Essex County College

August 2024

Associate of Computer Science, Newark, NJ (3.7GPA)

Honors: High Honors, Phi Theta Kappa (Academic Scholarship)

Coursework: Operating Systems, Programming Database Systems, Calculus 1 and 2, Statistics.

SKILLS & CODING LANGUAGES

Coding Languages: JavaScript (ES6/ES7), Java, React.js, Python, R, C++, CSS, C#, Linux Bash Commands, PowerShell, HTML, AWS Command Line Interface, Amazon S3, CI/CD, Docker, Kubernetes.

Software Applications: FastQC, Linux, MySQL, Figma, Ruby, EC2, AWS Cloud Systems, MultiQC, Photoshop, Creative Cloud, Final Cut Pro, SQL, Visual Studio Code, R Studio, AWS(Cloud Services), Oracle, R Shiny, Tensor Flow.

Technical skills: Microsoft Word, GDPR, Microsoft Excel, Data Analysis, SOC 2, Microsoft Suite, Data Structures, Linear

Algorithms, SOX, HIPAA, Cloud Computing, Machine Learning Development, Agile, Scrum and Test Driven methodologies. **Development**

Tools: Git, GitHub, React.js, Jest, Webpack, Power BL, Babel, Figma, Visual Studio Code, AWS, Tableau, Azure.

PROFESSIONAL CERTIFICATIONS

- IBM Data Science Professional Certificate(2025) - IBM (Coursera Course)

PROJECTS

- Developed a high-throughput bioinformatics data analysis pipeline on **AWS**, utilizing S3 storage and EMR (Spark) to sort and process a 2TB genomic dataset efficiently, significantly reducing processing time and enabling rapid downstream analysis.

- Developed and launched **CHI TV**, a personal **React.js** website to showcase my portfolio and creative works, fitted with a music player, and payment processing for any users interested in purchasing one of my works. From concept to completion within 2 weeks, demonstrated strong front-end development skills and time management.

- Created a working **GPS police Tracking Application** for the **GSLSAMP program** at Rutgers University **WORK**

EXPERIENCE

Army Educational Outreach Program(AEOP Internship)

Data Scientist/Software Engineer/Researcher | Department of Defense

Aug 2025 – Present

- Engineered and integrated multimodal causal reasoning AI modules to enhance the predictive capabilities of a developing Risk Assessment platform.
- Implemented advanced inferencing and pre-analysis frameworks to enable personnel to conduct comprehensive risk analysis prior to mission deployment.
- Authored a technical research paper documenting the full-stack architecture and development methodology of the Risk Assessment platform.

DOD(Department of Defense) HBCU/DI Research Internship - Silver Springs, MD CIV DEVCOM ARL

May 2025 - Aug 2025

Data Scientist/Software Engineer | DOD Silver Springs, MD CIV DEVCOM ARL

- Developed a military Grade application for risk assessment and severity mitigation, which utilizes engineering principles and coding languages such as **PHP**, **HTML**, **Python** and **JavaScript** to create the **application**
- Developed and trained neural network architectures on defense-grade datasets to enhance machine learning model performance for mission-critical, real-world military applications.
- Implemented probabilistic reasoning frameworks to fuse heterogeneous data sources; applied Bayesian inference techniques to improve model robustness and decision-making under uncertainty.

Rutgers University(GSLSAMP Program)

Nov 2024 – Feb 2025

Software Developer | **GSLSAMP** | Newark, NJ

- Developing a GPS tracking system integrating police radar information, using C++, JavaScript, and Python in collaboration with Rutgers University. Developing a GPS tracking system with integrated police radar data using C++, JavaScript, and Python.
- implemented Dijkstra's algorithm for real-time pathfinding and optimized routing accuracy. Designed the application layout in Figma, with the project slated for presentation at the Rutgers New Brunswick STEM Fair.

DOD(Department of Defense) Picatinny, NJ ARL(Software Project)

Feb 2025 – May 2025

Software Engineer/Scrum Master | DOD DEVCOM ARL, Picatinny, NJ

- Engineered a military-grade cooling system interface in C++, integrating software with a hardware emulator to simulate operational conditions and ensure precise system control.
- Led tri-weekly development meetings, managing task delegation and collaborative problem-solving, and presented findings to DoD Software Engineers.

Public Health Research Institute of New Jersey

Sep 2024 – Present

Data Scientist | Public Health Research Institute of New Jersey

- Developed Python-based data visualizations and algorithms to generate a new Biological Inference technique (VIP Score), aiding researchers in understanding the contribution of specific metabolites to tuberculosis progression.
- Processed and migrated large-scale genomic datasets (2TB and 700GB) to the AWS Cloud using Linux/Ubuntu, which improved data access speed by approximately 60%, and converted raw genomic data to FASTQ and CSV formats using R scripts for downstream analysis.