

# Bryant Short

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## EDUCATION

Elon University August 2022 - December 2025  
B.A. in Computer Science, Minors: Data Science, Business Administration GPA: 3.75  
Relevant Coursework: Software Design, Secure Coding Design, Database Systems, Data Mining & Machine Learning, Artificial Intelligence

## SKILLS

**Languages:** Java, Python, SQL, JavaScript, HTML, CSS

**Libraries/Frameworks:** Spring Boot, React, Scikit-learn, Pandas, NumPy

**Tools/Platforms:** Git, Postman, Docker, Maven, VS Code, PostgreSQL, Redis

## EXPERIENCE

**Digital Literacy Instructor** | Kenansville, NC | Summer 2025

- Conducted workshops teaching computer fundamentals to 30+ under-resourced adults.
- Provided technical support for internet navigation, hardware operation, and digital safety.

**Resident Assistant** | Elon, NC | January 2023 – December 2025

- Mentored 100+ residents, fostering a safe community supporting academic and personal growth.
- Managed conflict resolution and residential programming as a member of a neighborhood team.

## PROJECTS

**Netflix-Style Movie Microservices System** - *Java, Spring Boot, PostgreSQL, Redis, Docker*

- Architected microservices for high-concurrency movie browsing and real-time recommendations.
- Developed a collaborative filtering engine with Redis caching, reducing database load by 30%.
- Containerized services with Docker to ensure scalable environments and consistent deployment.

**Heuristic Search: 8 Queens Simulation** - *Python*

- Implemented a constraint-satisfaction solver using Random Restart and Hill Climbing heuristics.
- Improved state-space exploration speed by reducing susceptibility to local optima.

**Heart Disease Risk Prediction**- *Python, Scikit-learn, Pandas, Matplotlib, NumPy*

- Built a supervised learning pipeline to predict heart disease risk from patient health indicators.
- Compared models with cross-validation, achieving ~88% accuracy and precision-recall analysis.

**AI Lyric Sentiment Analyzer** - *Java, OpenAI API, Genius API, Maven*

- Engineered an NLP tool to analyze emotional themes in song lyrics via OpenAI API integration.
- Built robust API handling to process large datasets of lyrics and metadata from user input.

## ACTIVITIES

Elon Computing Society, Programming Club, Treasurer of Limitless Music, Duplin County Toys for Tots