

# ELI RICHMOND

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## WORK EXPERIENCE

### American Droid

Robotics Software Engineer

Greenville, NC

12/2025 – Present

- Building Python-based supply chain analytics report to evaluate U.S. domestic motor and gear manufacturers
- Developing ROS 2-based teleoperation system for mobile manipulator in Webots simulation, enabling remote control of hazardous material handling operations

### East Carolina University

Innovation Scout

Greenville, NC

08/2025 – Present

- Conducting market analysis and stakeholder interviews to assess commercialization potential of faculty research projects, developing go/no-go frameworks and strategic milestones

Graduate Research Assistant

05/2025 – Present

- Authored survey paper analyzing 40+ sources on web-based AI agents to identify novel thesis direction
- Presented findings at the Artificial Intelligence x Data & Knowledge Engineering 2026 conference proceedings (IEEE)

Software & Data Analytics Research Fellow (NSF REU)

05/2023 – 08/2023

- Designed and implemented a novel transformer tool-use AI model achieving improvement on math benchmarks
- Delivered weekly presentations to research committee, meeting project milestones under tight 10-week timeline
- Mentored 3 undergraduate researchers in deep learning techniques and software workflows

### Arkansas State University

Software Engineer

Jonesboro, AR

12/2021 – 04/2023

- Technical lead for a cross-functional team of 8 researchers (CS, education, linguistics) in developing AI-powered font optimization model for dyslexic readers
- Architected Django-PostgreSQL web application handling 1000+ user sessions and implementing CI/CD pipeline
- Presented research findings at 2 academic conferences, including the SITE 2023 conference proceedings (AAE)

## EDUCATION

**M.S. in Computer Science** | *East Carolina University*

G.P.A 4.0/4.0

Greenville, NC

05/2025 – Present

**B.S. in Computer Science** | *Arkansas State University*

Honors Program, G.P.A. 3.81/4.0

Jonesboro, AR

08/2021 – 08/2024

## SKILLS

**Languages/Databases:** Python, C++, HTML/CSS/JS, TypeScript — PostgreSQL, SQLite, MySQL

**Data Science:** PyTorch, TensorFlow, NumPy, SciPy, Scikit-learn, Pandas, Hugging Face

**DevOps/Continuous Integration:** Unix, Git/Github, Conda, Docker, venv, WSGI, Tmux, Heroku, BSD

**Web Development:** Django, React, Next.js, Bootstrap

## PROJECTS

**AI-Powered CLI Changelog Generator from Version Control History** | *Python, Greptile API*

Changelog Generator – Reducing manual documentation time by streamlining the release process

**E-Commerce Website Development for Luxury Timepiece Brand** | *Full-Stack Development, VPS*

Delta Timepieces – Managed a freelance project for a company that did \$1,000,000 in sales last year

**Decentralized Social Platform with IndieWeb Protocol Integration** | *Django, SQLite*

Hacker Social – Led team of 4 students building this decentralized social web application

## LEADERSHIP

**ECU Club Pickleball President & Co-founder** | *200+ members*

Grew the club from 0 to 200+ members, establishing it as an official club sport with competitive and social divisions

**Association for Computing Machinery (ACM) Social Chair** | *300+ members*

Organize and host all of the social events for the ECU ACM organization