

Evan Carr

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Education

Elon University

Bachelor of Science in Computer Science

- GPA: 3.9/4.0

Expected May 2024

Elon, NC

Experience

Software Developer Intern

SAS (JMP)

May 2023 — Present

Cary, NC

- Designed and executed a scalable AWS backend as a solo intern, enhancing user engagement and retention for over 50,000+ monthly users by introducing personalized article recommendations.
- Led PyTorch-AWS integration effort and deployed a ML model, achieving 93% accuracy in content recommendation.
- Reduced deployment time by 250% and enabled 85% test coverage by establishing CI/CD pipeline with GitHub Actions, Jest, Docker, and AWS CLI, automating build, test, and deployment processes.
- Automated routine article updates, saving Technical Support ~48 hours per month and doubling update frequency.

Computer Science Tutor

Elon University

Jan 2023 — May 2023

Elon, NC

- Delivered personalized tutoring for 40+ students resulting in 30% increase in exam scores within a single semester.
- Facilitated engaging group tutoring sessions to foster collaborative learning and debugging using Python and Java.
- Developed tailored study plans and learning materials for each student leading to a 75% return rate.

Data Analyst Intern

Center for Organizational Analytics

Aug 2022 — May 2023

Elon, NC

- Collaborated with a cross-functional team write and maintain Python scripts for data analysis in Excel spreadsheets.
- Researched and co-authored papers investigating the strategic implementation of data lakes, revealing diverse business benefits, and aligning technology with corporate objectives.
- Engaged in weekly interaction with business stakeholders to translate technical concepts into accessible insights.

Teaching Assistant

Elon University

Aug 2022 — May 2023

Elon, NC

- Collaborated with the professor to plan and coordinate lesson plans on fundamental computer science concepts and programming techniques for 25-30 undergraduates on a semiweekly basis.
- Provided detailed in-class tutoring which resulted in improved overall performance for 14+ students.

Research Assistant

Elon University

Aug 2022 — May 2023

Elon, NC

- Leveraged NumPy and backtracking algorithms to speed execution performance from around a week to under a day.
- Decreased average time to generate Latin squares and cubes size four from 1.25s to 0.13s by computing last element.

IT Support

Campus Technology, Elon University

Apr 2022 — May 2023

Elon, NC

- Provided technical support to 180+ classrooms with both Windows and macOS resulting in 98% equipment uptime.
- Increased campus classroom reporting by 35% resulting in full campus coverage.

Projects

Elon ODS | Go, Chi, PostgreSQL, MSSQL, Next.js, TypeScript, SAML, Docker, Kubernetes

- Coordinated 19 students to build Open Data Service (ODS), an API provider aiming to deliver accessible data to students.
- Implemented scalable, full-stack service at production-level context to handle 10,000+ requests from Elon community.
- Integrated the universities SSO using SAML to deliver secure and authenticated access to Elon University's resources.
- Collaborated with university stakeholders and the IT department to establish a robust student-institution partnership.

Elon Social | Java, Spring Boot, MongoDB, MySQL, Keycloak (OAuth2), Eureka, Docker, Next.js

- Built full stack, microservices web app that connects different communities in Elon University as an internal social media.
- Employed Eureka for service discovery and load balancing, enhancing the platform's responsiveness and reliability.

Skills & Interests

- **Programming Languages:** Go, Java, Python, JavaScript, TypeScript, C#, Swift
- **Tools & Frameworks:** MySQL, PostgreSQL, MariaDB, React, Next.js, Spring Boot, Docker, Node.js, Git, HTML, CSS
- **Interests:** Linguistics, Chess, Lacrosse, Sneakers, Spanish, Psych (TV Show)