Derek Curry

1125 Tamworth Hill Ln, Cary, NC 27519 | 304-951-1703 | djcurry@ncsu.edu | derekcurrycompsci.com

Statement

I began learning my first programming language in high school, and quickly realized the power of coding to solve problems and build innovative solutions. As I pursued my interests in trading and cryptocurrency, I taught myself Go to develop efficient and scalable applications. These projects ignited my passion for computer science, and motivated me to pursue a minor in mathematics to expand my skills and tackle complex problems in machine learning and AI. I am excited to bring my enthusiasm and expertise to a challenging and rewarding role in the field of computer science.

Education

COMPUTER SCIENCE | ANTICIPATED DECEMBER 2024| NORTH CAROLINA STATE UNIVERSITY | GPA: 3.94

- Major: Bachelor of Computer Science
- Minor: Mathematics
- Related coursework: Intro to Computing – Java, Software Development Fundamentals, C and Software Tools, Data Structure and Algorithms

Skills

Languages:	**JavaScript, Java, Go, C**
Web Technologies:	**HTML, CSS, WebAssembly, jQuery, Apache**
Databases:	**MongoDB**
Frameworks:	**Bootstrap, REST, Junit, GoEthereum, Gin Web**
Operating Systems:	**Windows, Linux**
Tools:	**Visual Studio, Visual Studio Code, Eclipse**
Personal:	**Communication, Collaboration, Time Management, Problem-Solving, Adaptability, Attention to detail, Leadership**

Projects

AUTOMATED CRYPTOCURRENCY TRADING | NOVEMBER 2021 – FEBRUARY 2022

- Executes trades based on market indicators. Built in Go using GoEthereum and multithreading for efficiency.

CRYTPTOCURRENCY TRANSACTION PROCESSOR | FEBRUARY 2022 – MARCH 2022

- A robust and versatile web application that allows users to pay for products using cryptocurrency. With this application, users can pay for products using cryptocurrency, and once the payment is verified, a license key is generated and sent to the user. Built using Go, GoEthereum, MongoDB, HTML, CSS, Gin Web, Bootstrap, and jQuery.

PATHFINDING VISUALIZATION | JULY 2022 – AUGUST 2022

- A fast and efficient web application that allows users to visualize pathfinding algorithms. With this application, users can place walls, move the start and end nodes, and see the algorithm process in action. Created in Go with WebAssembly, HTML, and CSS.

WISDOMBOTS | NOVEMBER 2021 – MARCH 2022

- A web service allowing users to purchase cryptocurrency trading bots with cryptocurrency. The service also provided instructional videos, frequently asked questions, and an affiliate system. The website was implemented with Bootstrap and used my cryptocurrency transaction handler.

LINEAR ALGEBRA SOLVER | OCTOBER 2022 – DECEMBER 2022

- I learn best by doing so I have began developing a C++ application to apply theorems I have learned in linear algebra. This has helped me learn linear algebra, C++ syntax, and how to perform matrix operations through code.

Extracurricular

TOTALED TESLA REBUILD | JUNE 2022 - PRESENT

- An ambitious project to restore a heavily damaged Tesla, which has given me an intricate understanding of electric vehicle components and systems. Tackling challenges without the aid of high-end equipment, I honed my problem-solving skills through extensive frame repair, body work, electrical troubleshooting, and software issue resolution.

EAGLE SCOUT | JUNE 2017 - PRESENT

- Being an Eagle Scout showcases my leadership, dedication, and problem-solving skills, and demonstrates my ability to set and achieve goals, work collaboratively, and overcome challenges. My participation in community service projects instilled in me a strong sense of social responsibility and a desire to make a positive impact. As an Eagle Scout, I bring exceptional qualities as a leader, team player, and community contributor to the workplace.