

# Derek Curry

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## Statement

I began learning my first programming language in high school. After I realized what I could accomplish, I began learning Go to apply to some of my interests, trading, and cryptocurrency. These projects sparked my love for Computer Science. I am working towards minors in mathematics and statistics to work on Machine Learning and AI problems.

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## Education

**COMPUTER SCIENCE | ANTICIPATED MAY 2025 | NORTH CAROLINA STATE UNIVERSITY | GPA: 3.93**

- Major: Bachelor of Computer Science
  - Minor: Mathematics
  - Minor: Statistics
  - Related coursework: Intro to Computing – Java, Software Development Fundamentals
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## Skills

<b>Languages:</b>	<b>JavaScript, Java, Go, Rust (familiar)</b>
<b>Web Technologies:</b>	<b>HTML, CSS, WebAssembly, jQuery, Apache</b>
<b>Databases:</b>	<b>MongoDB</b>
<b>Frameworks:</b>	<b>Bootstrap, REST, Junit, GoEthereum, Gin Web</b>
<b>Operating Systems:</b>	<b>Windows, Linux</b>
<b>Tools:</b>	<b>Visual Studio, Visual Studio Code, Eclipse</b>

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## Projects

**AUTOMATED CRYPTOCURRENCY TRADING | NOVEMBER 2021 – FEBRUARY 2022**

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

**CRYPTOCURRENCY TRANSACTION PROCESSOR | FEBRUARY 2022 – MARCH 2022**

- Allows users of a website to pay for a selected product using cryptocurrency. Once the user sends the payment, it is verified, and the transaction logged in a database. A license key is then 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 browser-based pathfinding visualization that allows users to move start and end points, and place walls. The pathfinding algorithm progress is shown, then the best path based on the algorithm. Created in Go with WebAssembly, HTML, and CSS.
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## Extracurricular

**TOTALED TESLA REBUILD | JUNE 2022 - PRESENT**

- Purchased a Tesla with “all over” damage to repair. Through the repair process I have learned in detail how every component of an electric vehicle works. I have had to solve problems continuously throughout the process since I do not have expensive equipment. The process has been very in depth, and I have completed frame repair, body work, traced electrical problems, fixed software problems, and soon, welding.