

# Christian Cox

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## EDUCATION

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**North Carolina State University**

*BS, Economics*

*Minor: Computer Programming*

**Expected May 2025**

*Raleigh, NC*

## EXPERIENCE

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**Pearson Education**

*Software Engineering Intern*

**Jun. 2024 – Aug. 2024**

*Durham, NC*

- Contributed to an internal tool that utilized **AI** to improve certain employees' efficiency by as much as **10x**
- Designed and implemented **Java Servlets** to communicate between a JavaScript frontend and an external service supporting the AI model

**Tesla**

*Software Engineering Intern*

**Jan. 2024 – May 2024**

*Fremont, CA*

- Built a **global** internal tool using TypeScript, React, and Node
- Implemented user authentication and authorization
- Communicated frequently with a backend team to implement functionality via APIs
- Participated in daily scrum meetings and weekly JIRA sprints

## PROJECTS

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**Osprey Technologies, Inc.** | *React, React Native, Node.js, PostgreSQL*

**Apr. 2020 – Present**

- Built two mobile applications in **React Native** and two web applications in **React**
- Gained experience designing and developing features that utilize **geolocation**, **cryptography**, and **WebSockets**
- Built **RESTful APIs** to efficiently and securely transmit data between client applications and a **Node.js** backend
- Used **Redis** to store, process, and utilize **real-time** data

**Pulse** | *Java*

**Nov. 2022**

- Designed and implemented a **tokenizer** to break down source code into tokens
- Used **data structures** to optimize memory usage when storing tokens and make it efficient for the parser to retrieve them
- Designed token types that make up the grammar and syntax of the language

**Tuffy Discord Bot** | *Node.js, Express.js*

**Feb. 2022**

- Implemented **rate-limiting** functionalities to enhance the user experience and **prevent spam**
- Created **command-handling** logic to allow users to interact with the bot through intuitive commands
- Optimized performance by leveraging **asynchronous** JavaScript techniques

## TECHNICAL SKILLS

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**Languages:** TypeScript, Java, Python, C, HTML, CSS

**Tools:** React, React Native, Node.js, GraphQL, Docker, Git, AWS

**Databases:** PostgreSQL, MongoDB, Redis

**Interests & Hobbies:** Cooking, Hiking, Basketball