

# Andre Harper III

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Durham, North Carolina

## TECHNICAL SKILLS

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**Languages:** JavaScript/TypeScript, Go, Node.js, Python, SQL, HTML/CSS

**Frameworks & Libraries:** React, Express, Flask

**Databases:** PostgreSQL, MongoDB

**Tools & Concepts:** Git, Docker, Google Cloud Platform, RESTful APIs, Agile Development, Full-Stack Development, Database Design

## EDUCATION

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**University of North Carolina at Charlotte**

Charlotte, North Carolina

*Bachelor of Science in Computer Science*

*May 2025*

- Relevant Coursework: Object Oriented Programming, Operating Systems, Data Structures and Algorithms, Database Design and Implementation, Software Engineering, Cloud Computing for Data Analytics, CodePath Technical Interview Prep

## PROFESSIONAL EXPERIENCE

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**Allstate**

Remote

*Unlicensed Service Representative*

*May 2022 – Nov 2022*

- Translated complex policy and system constraints into clear, actionable solutions for non-technical users, enhancing problem-solving efficiency.
- Queried systems to diagnose customer issues and retrieve critical information, ensuring data-driven resolutions.
- Collaborated with external teams to escalate, track, and follow up on technical issues, ensuring customer satisfaction

## PROJECTS

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**Programming Language Interpreter**

*Go, Lexical Analysis, Parsing, AST, Interpreter Design*

- Engineered a functional interpreter for the Monkey programming language in Go, demonstrating a deep understanding of language design and compiler fundamentals.
- Implemented a recursive descent parser to construct an Abstract Syntax Tree (AST) and an evaluation engine to execute code from the generated tree.
- Built support for core language features, including variable bindings, control flow, functions with closures, and complex data types like arrays and hash maps.

**AI-Powered Career Search Platform (Capstone)** *Java, Spring Boot, MongoDB, REST API, OpenAI API, Scrum*

- Engineered a full-stack job application platform using Java Spring Boot and MongoDB, designed to aggregate and display current job listings from an external API.
- Integrated the OpenAI API to provide users with value-added services, including real-time resume analysis and personalized improvement suggestions.
- Developed core application functionality that allows users to register, browse job listings, and seamlessly navigate to the original job posting.
- Collaborated effectively within a team using Scrum methodologies, leveraging GitHub and scrum boards for version control, task planning, and sprint execution.

**Collaborative Spotify Community Platform**

*Python, Flask, PostgreSQL, Spotify API*

- Developed a web application in a team setting using a Python, Flask, and PostgreSQL stack to create a community platform for music sharing.
- Integrated the Spotify API for user authentication and to fetch personalized data, such as a user's top artists and tracks.
- Engineered the backend to support full CRUD operations for user-generated content, such as community posts and comments.
- Designed and built key application features, including user profiles, a content feed, and post reaction functionality.