Donahue Avila

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Brief

Senior Computer Science student with expertise in full-stack web development. Skilled in building responsive and feature-complete web pages, with a focus on React.

Education

University of Oklahoma   Norman, OK
Bachelor of Science, Computer Science   May 2025

Work Experience

Web Scraping and Automation Specialist   Norman, OK
University of Oklahoma   June 2024 - Present

- Designed and developed web scraping and browser automation tools to collect over 10 million user posts.
- Applied best practices in software development, creating robust, error tolerant code.
- Managed a pool of 1,900 user accounts, rotating and scheduling usage to adhere to platform rate limits and maintain uninterrupted data collection.

Skills

- **TypeScript/Javascript**: Excellent TypeScript and JavaScript skills.

- **HTML/CSS**: Strong understanding of HTML/CSS. Able to create flexible layouts and visually captivating pages. Completed CSS for JavaScript Developers course.

- **Python**: Proficient in Python with experience in network programming and browser automation.

- **React**: Solid grasp of React hooks and features. Capable of managing state and interactivity. Experienced with React Server Components. Completed The Joy of React course.

- **Next.js**: Proficient with both app and pages router, with the ability of making full stack applications.

- **Git**: Well-versed in git. Prepared to work in a team environment.

Personal Projects

konekt.gg   konekt.gg
                                                                               December 2023

`React` `Next.js` `PostgreSQL` `Amazon S3`

A social media app for users to match and meet online friends.
- Utilized Next.js for fast server-side rendering, measuring page performance using Lighthouse.
- Provided a high quality user experience for both mobile and desktop environments.
- Used websockets for real-time communication.
- Designed and implemented database schemas, optimized queries, and developed API endpoints.