

EDUCATION

San Antonio, TX	St. Mary's University of San Antonio	Aug 2022 – May 2024
<ul style="list-style-type: none">• Degree: <u>Master of Science</u> in Computer Science, May 2024. (GPA: 3.83)• Graduate Coursework: Adv. Software Engineering; Adv. Computer Networks; Compilers; Files & Database; Web Development, System Analysis and Design, Operating Systems		
Pueblo, CO	Colorado State University	Aug 2019 – May 2022
<ul style="list-style-type: none">• Degree: <u>Bachelor of Science</u> in Computer Information Systems, May 2022. (GPA: 4.0)• Undergraduate Coursework: Adv. Programming with Java; Computer Architecture; Linux Fundamentals; Adv. Data Analytics with Python and R; Internet Server Side Programming; System Analysis and Design		

EMPLOYMENT

Graduate Assistant	St. Mary's University of San Antonio	Aug 2022–May 2024
<ul style="list-style-type: none">• Helping students to master Java, C, and object-oriented programming principles.• Supporting in-class activities, enriching students' learning experiences in programming principles.• <u>Leveraged knowledge:</u> C, Java, Object Oriented Programming, Teaching Assistant.		
Software Engineer Intern Project Leader	C&O Windows	Jan–May 2022
<ul style="list-style-type: none">• Led a team of 4 students in a successful Scrum project.• Achieved project milestones and client satisfaction.• Effectively distributed tasks, conducted regular client meetings, and ensured efficient communication, resulting in the timely completion of project goals.• Designed and implemented an efficient Inventory Management System to Improve inventory management.• <u>Leveraged knowledge:</u> Python, Flask, Jinja2, SQL, HTML, and CSS.		

SOFTWARE PROJECTS

Personal Website: <https://josuahall.onrender.com> (for additional information and projects)

Sporting Events social media App (Web and Mobile): Athletia

- Developed a comprehensive sports management platform, Athletia.
- Enhanced user engagement and streamlined event management for a wide variety of college/club teams.
- Engineered a full-stack web app and a React Native mobile app.
- Designed RESTful backend server for organizations, teams, events, ensuring seamless cross-platform experience. Implemented robust authentication and data security using JSON web-token and password encryption.
- Utilized: JavaScript, React.js, React Native, Redux, Node.js, Express.js, NoSQL, MongoDB, JSON Web Token

Inventory Management System

- Created an efficient Inventory Management System.
- Improved inventory tracking accuracy and management by leading 4 students in a scrum project.
- Utilized: Python, Flask, Jinja2, SQL, HTML, and CSS to develop intuitive and effective inventory solutions.

Personalized Job Search Platform: Job Finder AI

- Created a job finder AI platform enabling users to match their resumes with suitable jobs.
- Significantly improved job matching accuracy and relevance.
- Engineered the platform to harness k-Nearest Neighbor algorithm and vector search technology. Enabled precise job matches based on user resumes, elevating the user experience and results significantly.
- Utilized: React, Redux, Node, MongoDB, Vector Search, K-nearest Neighbor Algorithm, Large Language Model, R

ADDITIONAL INFORMATION

- **Outstanding Undergraduate Award (2022):** Hassan School of Business of the Colorado State University Pueblo
- **Student-Athlete (5 years):** Varsity men's soccer team

Languages and Technologies

- (proficient): JavaScript; React; React Native; Redux; Node.js; NoSQL; SQL; MongoDB; (familiar): Java; C; Python, C#, R
- Visual Studio; Git; Microsoft SQL Server, RESTful API, CRUD operations, Fluent in German