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# JOSUA HALL

## EDUCATION

**M.Sc. in Computer Science**           St. Mary's University of San Antonio           **2022-Present**
- GPA: 3.83
- **Graduate Coursework**: Advanced Software Engineering; Advanced Computer Networks; Compilers; Files & Database; Web- Development, System Analysis and Design, Operating Systems

**B.Sc. in Computer Information Systems**           Colorado State University           **May 2022**
- GPA: 4.0
- **Undergraduate Coursework**: Advanced Programming with Java; Computer Architecture; Linux Fundamentals; Advanced Data Analytics with Python and R; Internet Server Side Programming; System Analysis and Design

## EMPLOYMENT

**Graduate Assistant**           St. Mary's University of San Antonio           **2022–Present**
- Help students to master Java, C, and object-oriented programming principles.
- Support in-class activities, enriching students' learning experiences in programming principles.

**Software Engineer Intern | Project Leader**           C&O Windows           **Jan–May 2022**
- Led a team of 4 students in the successful execution of a Scrum project for a local business based in Colorado.
- Distributed tasks effectively, conducted weekly client meetings, and ensured efficient communication, resulting in the timely completion of project goals.
- Designed and implemented an efficient Inventory Management System to streamline inventory tracking processes.
- Leveraged knowledge: Python, Flask, Jinja2, SQL, HTML, and CSS.

## SOFTWARE PROJECTS

**Full-Stack Personalized Job Search Platform:**           Job Finder AI           **Aug-Nov (2023)**
- 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

**Full-Stack Mobile App (React Native):**           Athletia           **Jan (2023) - Present**
- Engineered a React Native mobile app, seamlessly complementing the web application, to ensure a consistent and intuitive cross-platform experience for users.
- Conducted a meticulous 3-month test phase, actively seeking user feedback to refine functionalities and enhance the overall user experience.

**Full-Stack Web App (React.js):**           Athletia           **Feb-Dec (2022)**
- Collaborated with another student to conduct a targeted market analysis, identifying market gaps and needs that aligned with the experiences of student-athletes.
- Engineered the comprehensive sports management platform, Athletia.
- Enhanced student engagement and streamlined event management for a wide variety of college/club teams.
- Designed a robust RESTful API, empowering seamless interactions between organizations, teams, and events.
- 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

## LEADERSHIP SKILLS

- **Student-Athlete (5 years)**: Demonstrated strong leadership skills by serving as captain, guiding two varsity Men's Soccer teams to success both on and off the field.
- Successfully balanced rigorous athletic commitments with academic excellence, showcasing effective time management skills.

## 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