Mason Garrett
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OBJECTIVE
Strong logical thinker seeking a full-time position in the field of software engineering

EDUCATION
East Carolina University, Greenville NC
BS: Computer Engineering
GPA: 3.4

RELEVANT COURSEWORK
Software Engineering I & II, Algorithmic Problem Solving, Discrete Structures, Algorithms and Data Structures, Data Abstraction Object-Oriented Data Structures, Principles of Programming Lang, Design/Analysis of Algorithms, Computer Networks, Database Management Systems, Information Retrieval, Web Applications, Cloud Computing

PROJECT EXPERIENCE
Personal Portfolio Website
- Developed a visually appealing and interactive website using HTML, CSS, and JavaScript. Integrated a secure Flask login system, implemented password hashing and utilized a MySQL database for efficient storage and retrieval of user data and interactions.
- Successfully streamlined website deployment by leveraging a CodePipeline from GitHub to Elastic Beanstalk, ensuring automated publishing on AWS. Utilized AWS RDS to establish and maintain a secure online database for data storage.
- Ensured the website is optimized for both desktop and mobile devices, allowing for a seamless browsing experience across different platforms. Implemented SSL certificate through AWS Certificate Manager, securing the website domain for a trustworthy browsing experience using Route 53.

Login System
- Implemented a secure and efficient authentication mechanism by creating a login system using Django, Python, and SQLite database.
- Developed an intuitive and user-friendly front-end interface using HTML and CSS to enhance the user experience.
- Designed and implemented aesthetically pleasing login, sign out, and user registration pages, focusing on usability and visual appeal.

Military Inventory System (Current)
- Developing a highly efficient and secure weapon log-in system for the military, replacing the outdated paper-based process. The new system will leverage password salting and hashing algorithms to ensure robust security and protection against unauthorized access.
- Implementing a scalable and resilient database solution using Django and MySQL. The database will feature optimal indexing to enhance performance.
- Utilizing QR codes as a cutting-edge identification and verification method, enabling rapid and accurate weapon check-in and check-out processes.

TECHNICAL SKILLS
Python, Java, HTML, CSS, Javascript, Django, Flask, MySQL, PostgreSQL, SQLite

WORK EXPERIENCE
Game Developer Intern, MoonRift Entertainment, (Remote)   May 2022 – July 2022
- Demonstrated leadership and management skills by guiding a team of 6 interns in the successful development of a 3D game in Unity using C#.
- Efficiently managed project tasks and ensured timely completion of objectives by creating and utilizing a Trello board to monitor progress and maintain project workflow.
- Delivered an engaging and comprehensive project overview to a substantial audience at the end of a 6-week project timeframe, highlighting excellent communication skills.