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As a final-year computer engineering student at Costa Rica Institute of Technology (TEC), I have actively engaged in various projects delving into diverse cutting-edge technologies and developing crucial soft skills. I am now eager to apply my knowledge and contribute to innovative software projects as a valuable member of a dynamic team.

Skills

- Web Development Technologies: **React, Angular, HTML5, CSS3, Material UI, Bootstrap**
- Backend Technologies: **.NET, Express**
- Database management systems: **PostgreSQL, SQL Server, MongoDB**
- Programming Languages: **Python, C, C++, JavaScript, Typescript, Java**
- Application Lifecycle Management and DevOps: **Azure DevOps, Jira (Agile)**
- Operating Systems: **Ubuntu, Arch Linux, Windows**
- Version control: **Git (GitHub)**
- Leadership
- Communication
- Teamwork
- Adaptability
- Problem-solving
- Time management

Education

Bachelor Degree in Computer Engineering

2019 – Present (1 year away from graduation)

Costa Rica Institute of Technology (ITCR)

Cartago, Costa Rica

- Relevant Coursework: Advanced Databases, Software Specification and Design, Algorithms and Data Structures, Computer Architecture, Pattern Recognition, Embedded Systems.

Honors High School Diploma

2014 - 2018

Claretiano High School

Heredia, Costa Rica

Experience

Digital Design Workshop Assistant

February 2023 – July 2023

Computer Engineering Area - Costa Rica Institute of Technology

Cartago, Costa Rica

- Conducted a timely review and assessment of short tests and student assignments for the course, ensuring correctness and providing constructive feedback to enhance overall learning outcomes.
- Aided the professor in preparing instructional materials contributing to the effective delivery of course content. Additionally, supported students in grasping course topics, fostering a conducive learning environment.

Relevant Projects

Full-Stack Projects

ITCR course: Databases

- Developed as a team a comprehensive e-commerce platform allowing users to browse products, add them to the cart, and complete transactions. Implemented a responsive user interface using Angular for the frontend, .NET Entity Framework for the backend and PostgreSQL as the database.

- Created a robust gym administration application to streamline operations, including member management and class scheduling. Employed the same technologies as the e-commerce application with a SQL Server database.
- For both projects the team utilized Azure DevOps for responsibility control and workflow management.

Software Design Project

ITCR course: Software Specification and Design

- Collaborated in a team to develop a web game for events, where the professor served as the client. Utilized the Agile methodology to gather requirements, organize sprints, and provide progress updates.
- Learned the Agile approach for software specification and design, enhancing skills in effective communication and iterative development.

Personal Web Portfolio

Own Project

- Developed a personal portfolio with React to enhance frontend skills and to showcase a detailed overview of projects completed during my academic journey.
- Prioritized code quality, component reusability, and scalability in the development process.

Embedded Systems Projects

ITCR course: Embedded Systems

- Collaboratively developed a project integrating a React-based webpage with Auth0 authentication, a Flask server, and a Raspberry Pi. Implemented a custom Yocto-based operating system to craft innovative IoT solutions.
- Contributed to an Ionic-React mobile app using Firebase authentication. The application communicates with a Raspberry Pi through a C++ server, enabling functionalities such as capturing, filtering, and displaying images on the mobile device.

Games Projects

ITCR course: Algorithms and Data Structures

- Developed games and applications in Python, Java, C++, C, emphasizing best practices and implementing data structures such as linked lists, arrays, dictionaries.
- Applied design patterns like facade, factories, singleton, observer, and worked with client-server architectures, including sockets and protocols such as HTTP and UDP.

Extra-Curricular Activities

Scouts

Guides and Scouts of Costa Rica

2009 – 2015

Led a team of scouts in various outdoor and community service activities, fostering teamwork and leadership skills.