Juan Pablo Cerda

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○ github.com/MrJuanPabloTheCreator 💼 juan-pablo-portfolio.vercel.app/

EDUCATION

Missouri Valley College   **Marshall, MO**
Bachelor of Science in Computer Information Systems   May 2024

EXPERIENCE

Missouri Valley College   **Marshall, MO**
Web Development Intern   Jan 2024 – May 2024

- Developed a comprehensive website structure redesign proposal as part of the IT infrastructure refresh project.
- Gathered and documented website requirements from various institutional authorities to elevate user experience, user interface, accessibility, readability and responsiveness.
- Designed a modern UX/UI with React and Next.js, applying custom CSS animations to elevate interactivity, optimize development efficiency, and enhance SEO through server-side rendering.
- Assisted in generating reports using the Argos Reporting tool and SQL queries to extract and analyze data from various institutional databases.

PROJECTS

ChatApp - React, NodeJS, API Gateway, Lambda, DynamoDB, Cloud Front, S3   ⬀

- Built a scalable real-time chat application leveraging a serverless architecture, ensuring high availability.
- Developed a RESTful API to streamline user management processes, including secure JWT token generation and authentication.
- Implemented WebSocket connections via AWS API Gateway to enable real-time, bidirectional communication, dynamically updating user connection IDs on connect and disconnect using Lambda functions and DynamoDB.
- Deployed front-end static assets to AWS S3, leveraging CloudFront as a CDN to enhance global reach and caching for improved user experience.

Paw Paradise - React, Typescript, Google OAuth, AWS MySQL, S3   ⬀

- Built an extensive e-commerce platform featuring robust user authentication, including account creation, Google OAuth integration, advanced search, filtering, and user-specific storage functionalities.
- Integrated a secure, role-based admin panel for product management, with strict access control and protected routes to ensure data security and compliance.
- Engineered algorithms to merge and synchronize local storage data of unauthenticated users with the cloud-hosted database upon user login, ensuring seamless data transition and data integrity.
- Achieved $O(1)$ time complexity comparisons between store items and user-saved/user-cart items to dynamically highlight product state based on user data.
- Optimized database performance by implementing a connection pool for efficient connection reuse.

JP-Hospital - React, Typescript, AWS MySQL   ⬀

- Healthcare specialist search and scheduling platform that enables customers to find nearby professionals based on their location and specialty needs.
- Developed algorithms that seamlessly interact with third-party APIs to effectively translate any provided zip code into geolocation coordinates, enabling the comparison and identification of the closest professionals.
- Designed and implemented a relational database system to efficiently manage staff, specialties, users, and appointments information, utilizing AWS RDS for secure and scalable storage solutions.

CERTIFICATIONS

Certified Solutions Architect, Amazon Web Services   September 2024
Certified Cloud Practitioner, Amazon Web Services   July 2024

SKILLS & TECHNOLOGIES

Cloud Computing | System Design | Scalable Solutions | DB Management | SDLC | RESTful API Development | Version Control | Data Structures | JavaScript | TypeScript | HTML | CSS | React | Node JS | Express JS | C | C++ | Python | SQL MySQL | MongoDB | AWS (Lambda, DynamoDB , RDS, S3, API Gateway, ECR, ECS, ELB) | Google Cloud