Ricardo Cruz

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EXPERIENCE

ATB Financial   **Calgary, AB**
Software Developer Intern   September 2022 - April 2023
- Reimplemented self serve page that scaled to over 1,500 users, significantly improving user efficiency.
- Programmed a Q&A chat bot to be incorporated into Google Chats to assist current employees.
- Designed calendar website to extract data from Google Sheets to aid 3+ teams in effortlessly managing on-call schedules through Firebase.
- **Technologies used:** React.js, Express.js, MongoDB, Python, Firebase, Jira.

ATB Financial   **Calgary, AB**
DevOps Intern   May 2022 - September 2022
- Successfully managed 5+ GKE Cluster upgrades, ensuring smooth and uninterrupted operation of the application while implementing the latest features, security patches and performance improvements.
- Created bash scripts to automate various development, deployment and backup operations in GCP.
- Implemented automated CI/CD Pipelines for deploying updated applications, significantly lowering deployment time by up to a minute.
- Utilized Docker containers to generate different images for various VM environments.
- **Technologies used:** Google Cloud Platform, Google Kubernetes Engine, Docker, Terraform, Gitlab CI/CD.

EDUCATION

The University of Calgary   **Calgary, AB**
BSc in Computer Science (3.63 GPA)   **Graduated:** 2023
- Relevant Coursework: Data Structures, Designs and Analysis of Algorithms, Principles of Operating Systems, Data Base Management Systems, Computer Networks, Computability, Computer Logic.
- Honours: **Distinction** Student, **Deans List** Student, Jason Lang **Scholarship Holder**.

PROJECTS

OverRatd (Python) repo link   March, 2024
- Designed and implemented Flask web app for analyzing Premier League 2022-23 player stats.
- Developed a MySQL schema for efficient storage of player information, incorporating transfer fees and key performance stats for comparative analysis in player acquisitions.
- Implemented CRUD operations for seamless user interaction with player records in the database.
- Introduced data visualization for comparative player analysis, aiding team management decisions.
- Optimized database queries and indexing for performance and scalability, ensuring efficient retrieval and manipulation of large datasets.
- Utilized "pandas" for web scraping stats from fbref.com and automated adding the scraped data to the database.

DialedIn (JavaScript) website link   October, 2023
- Developed a social media web app similar to LinkedIn.
- Integrated Firebase's back-end functionality API to develop user profiles.
- Enhanced security through email and password authentication for the landing page via Firebase Console.
- Implemented real time post threads using React Hooks for refreshing website snapshots.
- Resolved prop drilling issues by introducing Redux for seamless data payload flow management.

Music Web App (JavaScript) website link   April, 2023
- Analyzed the Spotify Web App to develop a similar responsive front-end design with Material UI.
- Made user authentication available via the Spotify API, enabling retrieval of user information such as name, display picture, playlist names and complete song lists within each playlist.
- Established a data layer utilizing the React Context API for state management across multiple components.

Chat Web App (JavaScript) repo link   January, 2022
- Built real time web chat app utilizing Express.js and Node.js as the back-end server framework.
- Integrated socket.io for seamless bi-directional user communication between users in the same room, enabling instant messaging and dynamic color updates.

SKILLS

- **Languages:** Python, JavaScript, Typescript, Java, C, C++, C#, HTML/CSS.
- **Technologies:** MySQL, Docker, Google Cloud Platform, Google Kubernetes Engine, Terraform, Firebase.
- **Frameworks:** React.js, Angular, Next.js, Node.js, Express.js, JUnit5.
- **Version Control Systems/Continuous Integration Tools:** Git/Github/Gitlab CI/CD, Yaml, Visual Studio Code.