Joelle Perez

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WORK EXPERIENCE

Intel Corporation, Hillsboro, OR   September 2021 - January 2023
ChromeOS Integration Software Engineer
- Collaborated closely with the Google Media team to effectively manage and supervise the timely delivery of the Intel Media Driver update for the 2022 Q2 and Q3 releases, successfully meeting all project milestones
- Conducted rigorous automated testing using **Python** and manual compatibility testing of Intel Media Driver releases to ensure functionality and validate their performance
- Documented records of unsuccessful test outcomes using **Jira**, providing detailed explanations for failure causes and potential solutions
- Demonstrated exceptional problem-solving abilities by implementing high-quality bug fixes to address reported issues, enhancing the overall reliability and efficiency of the Intel Media Driver and ChromeOS
- Employed activate analysis techniques to perform detailed code reviews on **GitHub**, ensuring strict commitment to specified code standards and comprehensive testing procedures

EDUCATION

Oregon State University, Corvallis, OR   June 2021
- Bachelor of Science - Computer Science

PROJECTS

Develop a Virtual Video Studio
- Contributed to the development of software designed to optimize the production of virtual studio scenes using Unreal Engine 4, resulting in enhanced efficiency and affordability for small-scale videographers
- Designed and implemented a prototype application allowing users to seamlessly access and navigate virtual environments through their mobile phone cameras
- Authored a comprehensive instruction manual outlining the configuration process for setting up virtual studios, enabling users to effortlessly broadcast their Unreal Engine instance to a wide range of Network Device Interface clients

Food Recipe API
- Played a vital role in the successful implementation of a food recipe API using **JavaScript**, **Express.js**, and **MySQL**
- Skillfully designed the MySQL database tables to ensure efficient data storage and retrieval mechanisms for seamless integration with the API endpoints
- Demonstrated expertise in implementing endpoints with comprehensive role-based access control, effectively enforcing administrative access privileges

One-Time Password
- Successfully developed five **C** language programs, seamlessly interacting with one another, to execute the encryption and decryption of plaintext to ciphertext, employing a one-time pad-like system
- Leveraged C's network calls proficiently to facilitate the secure transmission and reception of byte sequences crucial for seamless encryption and decryption processes

Resume Builder
- Played a role in the development of a web application for resume generation by utilizing user input
- Created the user input form page and resume template page, employing **HTML**, **CSS**, **JavaScript**, **Express.js**, and **Handlebars.js**
- Demonstrated proficiency in implementing CRUD functions to store and retrieve user data from a **MongoDB** database

SKILLS

Languages: Python, JavaScript/React, C/C++, SQL, HTML/CSS, Bash, Shell
Technologies: Git, Linux, Unix, Jira, MySQL, MongoDB
Others: Automated Testing, Agile Development, Technical Writing