RYLEY JUE

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EDUCATION

Chapman University, Fowler School of Engineering May 2024

Bachelor of Science, Computer Science

Minor: Information Security and Policy

Overall GPA: 3.82

WORK EXPERIENCE

AVEVA – Software Development Engineering Intern July 2022 - Present

- Developed test validation automation tools to reduce Quality Assurance workload by 60%
- Validated functionality of new features by producing and assessing 50+ test cases weekly
- Strategized workflow using the Agile methodology to successfully meet sprint deadlines
- Used C++, C#, .NET, SQL Server, Azure Cosmos DB, Microsoft Azure, Git

PROJECTS

Johnson & Johnson Pillbox | *C++* May 2022 - Present

- Designed a smart pillbox to safely distribute medication to the appropriate user
- Cooperated with a small team of students, faculty, and J&J to create prototype smart pillboxes
- Hardware: Arduino MEGA 2560, RFID Reader, LCD screen, stepper motors

Basketball Stats Database Project | *React, Next.js, Node.js, Express.js, MySQL* November 2022 - December 2022

- Created a website for users to easily access and insert basketball stats
- Implemented an API using Node and Express to communicate with a MySQL server
- Calculated optimal player stats to indicate positive and negative performances

National Parks Application | *React, Node.js, Firebase, National Parks API* June 2022 - August 2022

- Built an informational website that allowed users to save information on National Parks
- Integrated user profiles using Firebase Authentication and Realtime Databases
- Applied RESTful APIs to quickly store and retrieve data for users

Twitter Sentiment Calculator | *Python, Twitter API* February 2022

- Used the natural language processing technique of sentiment analysis
- Utilized Twitter API to search and scan the top 100 tweets based upon keywords
- Analyzed and compared sentiment scores to classify the tone of related tweets

RESEARCH EXPERIENCE

Reusability of Coffee Waste in 3D Printing January 2021 – May 2022

- Collaborated with 4 STEM majors to respond to massive coffee ground waste in landfills
- Investigated material properties of spent coffee grounds to recycle them in additive manufacturing
- Fabricated resin and coffee ground mixtures recording UV exposure times and changes in material properties

RELEVANT COURSEWORK

- Data Structures and Algorithms
- Object-Oriented Programming
- Data Communications/Computer Networks
- Operating Systems
- Database Management
- Programming Languages

TECHNICAL SKILLS

Programming: Python, Java, C++, C#, HTML5, CSS, React, MySQL, Unix/Linux

Tools & Platforms: Git/GitHub, Microsoft suite, Docker, Netlify, LobeAI

Languages: Intermediate Spanish, Elementary Chinese