Gavyn Ezell

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EDUCATION
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University of California – San Diego   2020 – 2024
Bachelor of Science, Computer Science

Relevant Coursework: Design and Analysis of Algorithms, Software Engineering, Database System Principles, 3D User Interaction, Intro to Machine Learning, Intro to Parallel Computing

EXPERIENCE
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GoFundMe   July 2023 – September 2023
Software Engineering Intern   San Diego
- Collaborated with software engineers to build an internal API using FastAPI and Kafka, to standardize event streaming protocols for business analysis and machine learning teams
- Implemented event listeners into several of the site's main microservices, using PHP and Laravel
- Wrote thorough unit tests using PHPUnit to ensure proper integration and deployment of event listeners

VoLo Foundation   July 2022 – September 2022
Software Intern   Remote
- Designed and developed a web app using Flask, providing users centralized access to their personal health data
- Created a customizable experience for users to view and download their data as CSVs
- Gave a brief presentation and demo of the web app to the founder and other administrator's of the VoLo Foundation

SKILLS
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Programming Languages: Python, C++, C#, JavaScript, PHP, SQL, Java, Assembly
Frameworks and Libraries: FastAPI, Express, Laravel, PyTorch, CUDA, NumPy, Pandas
Technologies: Node, MySQL, MongoDB, Docker, Kubernetes, Kafka, AWS, Unity

PROJECTS
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Ray Tracer from Scratch
- Built a ray tracer in C++ which can read a formatted scene description file and render a PNG image containing transformed triangles, spheres, and lighting
- Implemented a Bounding Volume Hierarchy for accelerated rendering runtime, cutting hours of rendering time down to seconds
- Additionally created a script for translating .obj files into a readable files for the ray tracer

SSBU Personalized Player Tracker
- Designed and developed a personalized web dashboard using Express.js and MySQL for monitoring pro players in the Super Smash Bros. Ultimate competitive eSports scene
- Utilized Start.gg's GraphQL API for easier monitoring of favorite competitors and their stats, such as recent placements, upcoming tourneys, and socials
- Incorporated Twilio's Messaging API for a simple notification system

Eventify - ACM Projects
- Worked with a team of six to build a web app using the MERN stack, enabling students to easily browse or promote their own events on campus
- Developed a data schema and managed data using Mongoose and MongoDB
- Used AWS S3 Cloud Object Storage to add an image upload feature