

Joseph Kim

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EDUCATION

University of California, Irvine | B.S. in Computer Science [Specialization: Intelligent Systems] Sep 2020 - Jun 2024

- GPA: 3.82/4.0
- Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, Computer Architecture, Machine Learning/Data Mining, Computer Networks, Information Retrieval, Database Management

EXPERIENCE

Freelance Software Developer

Jan 2024 - Present

DataAnnotation.tech

- Trained AI models on diverse prompts including coding exercises and tasks involving natural language processing.
- Utilized Python, Java, and C++ to implement and test Machine Learning prompt generating algorithms.
- Developed and refined AI coding prompt datasets to enhance model performance and accuracy.
- Performed task-specific evaluations on AI-generated responses on coding prompts, providing detailed feedback and analysis.

AR Effect Engineer Intern

Aug 2022 - Oct 2023

Paper Triangles

- Developed engaging filters utilizing Snapchat Lens Studio and TikTok Effect House, contributing to enhanced user experiences and brand engagement for thousands of users.
- Integrated a variety of APIs into filters to enrich user experiences with real-time information.

Freelance Software Developer

Jan 2020 - Jan 2022

Self-Employed

- Architected resilient software solutions for **over 50 clients**, collectively serving a customer base of **20,000 individuals**.
- Managed server and hosting responsibilities on the Google Cloud Platform, guaranteeing uninterrupted service delivery and client satisfaction.

PROJECTS

Amazon Monitor | *Python*

- Leveraged Amazon's Product Advertising API, deployed on Google Cloud Linux Virtual Machines, to address pandemic-induced supply constraints.
- Enabled prompt customer acquisitions by monitoring scarce items, culminating in generating over **\$2 million** in revenue for Amazon.

Web Crawler & Search Engine | *Python, JavaScript, HTML, CSS*

- Designed and implemented a Web Crawler using BeautifulSoup to systematically traverse the extensive University of California, Irvine website to be able to index all the websites from the domain.
- Employed advanced techniques, including implementing SimHash, to proactively identify and evade crawler traps, ensuring seamless and efficient data extraction.
- Developed a responsive front-end interface enabling users to manually query search engine results with sub-100 millisecond response times.

ValorWin AI | *Python*

- Employed random forest classification to forecast the probability of winning in Valorant.
- Utilized a comprehensive dataset from the T1, T2, and collegiate scene, encompassing nearly **500,000 rounds** of data spanning all maps in Valorant.

Self Parking AI | *Python*

- Engineered a self-parking AI system utilizing the Proximal Policy Optimization (PPO) reinforcement learning algorithm.
- Optimized the model for enhanced efficiency and performance.

Technical Skills

Python (Advanced), C++ (Familiar), C (Familiar), JavaScript (Familiar), TypeScript (Familiar), MIPS Assembly (Familiar), Pandas, Numpy, Matplotlib, Angular, Ionic, Node.js, MongoDB, SQL, Git, Linux, Google Cloud Platform