

Joseph Kim

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EDUCATION

University of California, Irvine

Sep. 2020 – June 2024

B.S. in Computer Science, Specialization in Intelligent Systems

GPA: 3.82/4.0

Coursework *Machine Learning, Deep Learning for Medical Imaging, Data Mining, Computer Architecture, Operating Systems, Statistics*

EXPERIENCE

Freelance Software Developer

Jan. 2024 – Present

Data Annotation

- Refined **AI/LLM models** and trained them on diverse prompts, boosting chatbot programming efficiency.
- Evaluated and optimized code across multiple languages (**Python, JavaScript, C++, HTML, SQL, etc.**) for correctness, functionality, and performance.

AR Effect Engineer Intern

Aug. 2022 – Oct. 2023

Paper Triangles

Los Angeles, CA

- Developed engaging filters using **Snapchat Lens Studio** and **TikTok Effect House**, contributing to enhanced user experiences and brand engagement for **50,000+ 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

Los Angeles, CA

- Architected software solutions for over **50 clients**, 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* | [Link](#)

June 2020 – Jan 2021

- Developed a high-demand item tracker using **Amazon's Product Advertising API**, hosted on **Google Cloud**, to tackle pandemic-related supply shortages.
- Utilized **Python, dhooks, and threading** to automate the tracking of scarce items.
- Ensured access to essential goods for **20,000+ members** and generated **\$2M+** in Amazon affiliate sales.

Web Crawler & Search Engine | *Python, JavaScript, HTML, CSS* | [Link](#)

Oct. 2023 – Dec. 2023

- Developed a web crawler and search engine, successfully indexing and retrieving information from all pages within the University of California, Irvine website domain.
- Used **Python libraries (BeautifulSoup, lxml, etc.)** to ensure polite behavior, avoid traps with **SimHash**, and handle redirects. Built an inverted index with **term frequency** and **tf-idf scoring**.
- Created a responsive search interface handling boolean queries and utilizing **cosine similarity** for document ranking, providing search results with a **sub-100 millisecond** response time.

ValorWin AI | *Python* | [Link](#)

March 2024

- Developed an AI model to forecast the probability of winning individual rounds and matches in Valorant.
- Employed **random forest classification** using a comprehensive dataset from T1, T2, and collegiate scenes, encompassing nearly **500,000 rounds of data** across all Valorant maps.

Self Parking AI | *Python* | [Link](#)

May 2023 – June 2023

- Utilized the **Proximal Policy Optimization (PPO)** reinforcement learning algorithm.

SKILLS

Languages: Python, C/C++, HTML/CSS, JavaScript/TypeScript, SQL, MIPS Assembly

Frameworks: React, Ionic, Node.js

Developer Tools: Git, Google Cloud Platform

Libraries: Pandas, Numpy, Matplotlib, Tensorflow, Pytorch, Scikit-learn