Joseph Kim

661-862-9539 | josephkimcodes@gmail.com | LinkedIn | Portfolio

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*

Skills

Languages: Python, C/C++, HTML/CSS, JavaScript/TypeScript, SQL, MIPS Assembly
Frameworks: React, Next.js, Node.js, Flask
Developer Tools: Git, Google Cloud Platform
Libraries: Pandas, Numpy, Matplotlib, Tensorflow, Pytorch, Scikit-learn

Experience

Software Developer - AI Trainer Jan. 2024 – Present

DataAnnotation

- 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.

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

ValorWin | *Python, JavaScript, HTML, CSS* | Link March 2024 - Aug 2024

- Developed and deployed a full-stack web application using **Next.js** for the frontend and **Flask** for the backend, delivering Valorant win percentage predictions.
- Scraped, cleaned, and preprocessed data from VLR.gg, covering over **10,000 matches** and more than **500,000 rounds** across T1, T2, and collegiate Valorant scenes.
- Trained an AI model using **Random Forest classification**, leveraging features such as loadouts, rounds won, and map selection.

Amazon Monitor | *Python* | Link June 2020 – Jan 2021

- Developed a high-demand item tracker using **Amazon's Product Advertising API**, hosted on **Google Cloud Platform**, 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+ users** and generated **$2M+** in Amazon affiliate sales.

Web Crawler & Search Engine | *Python, JavaScript, HTML, CSS* | Link Oct. 2023 – Dec. 2023

- Indexed and retrieved 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.

Self Parking AI | *Python* | Link May 2023 – June 2023

- Developed a simulation environment using **PyGame** and **Gym** for training and evaluating agents.
- Implemented **PPO, DQN, and DDQN** algorithms to train an autonomous car parking agent, optimizing decisions based on sensor inputs.