Timothy Kim

(301)-640-0568 | gotimkim@gmail.com | linkedin.com/in/timothy-kim712/ | github.com/TimKim712

Education

San José State University, San José, CA Fall 2022 - Spring 2026
B.S, Software Engineering *GPA: 3.84/4*
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Management Systems, Machine Learning, Computer Networks, Operating Systems, Information Security

Technical Skills

Languages/Databases: Java, Python, HTML/CSS, JavaScript, TypeScript, C/C++, MySQL, MongoDB
Frameworks: React, Angular, Node.js, Vue.js, Tailwind, SCSS, FastAPI, Flask
Developer Tools: AWS (S3, EC2, Lambda, DynamoDB, Rekognition, API Gateway), Unix, Linux (Debian, Ubuntu), Docker, Postman, Visual Studio Code, Jupyter Notebook, Eclipse
Libraries: numpy, tensorflow, pandas, transformers, pytest, torch, sklearn, matplotlib
Protocols: TCP/IP, UDP, HTTP/S, WiFi (IEEE 802.11), IPv4/6

Experience

Lawrence Livermore National Laboratory May 2025 – August 2025
Computing Intern
- Contributing to development of a secure data archival platform for classified and unclassified experimental test data, enabling efficient storage, searchability, and traceability for multiple teams across the laboratory.
- Leveraging TypeScript, Angular, FastAPI, and MongoDB to enhance user interface, improve API development, and optimize backend document processing, boosting query performance and elevating overall user experience.

Blackhawk Network June 2024 – December 2024
Technology Intern
- Streamlined custom gift card purchase process by developing an image recognition service on E-Commerce platform to automatically evaluate user-submitted images for inappropriate content.
- Improved scalability and efficiency of image processing workflows by leveraging AWS S3 for image storage and DynamoDB for image data management, resulting in faster data retrieval and seamless handling of large datasets.
- Designed and implemented RESTful APIs using FastAPI to handle image uploads, query metadata and approval status, and generate user-requested images using OpenAI API.
- Created a dynamic, user-friendly frontend using React and TypeScript to display image classification results, including appropriateness status, rejection reasons, and confidence scores in real-time.

Projects

Phisher Fisher | *Vue.js, Tailwind, Flask, Jupyter Notebook* December 2024 – January 2025
- Trained and fine-tuned a distilBERT transformer model on a dataset of 12,000+ samples for phishing email and message detection, achieving 97.52% accuracy.
- Implemented REST APIs on Flask that deploy the model, enabling classification of user-inputted messages and retrieval of results with confidence scores.
- Designed a Google Chrome extension using Vue.js and Tailwind to process suspected message and display classification results, enhancing accessibility and convenience.

Recipe Radar | *React, CSS, Google Firebase, Firestore* January 2024 – May 2024
- Developed a web application using React that generates personalized daily meal recipes based on user-inputted criteria such as dietary preferences, calorie limits, and restrictions.
- Integrated Spoonacular API to retrieve and display tailored recipes and Firestore to manage user authentication and securely store personalized preferences.

Activities

Treasurer | Association for Computing Machinery (ACM) August 2023 – Present
- Oversees the annual budgeting process, monitor the club's financial sources and expenditures, and participate in weekly meetings with officers and advisors to debrief and coordinate upcoming events.