Timothy Kim

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Education

San José State University, San José, CA Expected Graduation: May 2026

B.S, Software Engineering *GPA: 3.83/4*

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Database Management Systems, Computer Networks, Wireless Communication Systems, Machine Learning, Operating Systems, Information Security

Technical Skills

Languages/Databases: Java, Python, JavaScript, HTML/CSS, 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), shell(bash,zsh), Docker, Postman, Visual Studio Code, Jupyter Notebook, Eclipse
Libraries: numpy, tensorflow, pandas, transformers, pytest, torch, sklearn, matplotlib

Experience

Lawrence Livermore National Laboratory May 2025 – December 2025

Computing Intern

- Developed a secure data archival platform for classified and unclassified experimental test data, supporting the storage, search, and traceability of over 350,000 records for multiple teams.
- Enhanced user interface and backend processes using TypeScript, Angular, FastAPI, and MongoDB, resulting in improved query performance and user experience.
- Accelerated bi-weekly transfer of 100GB data from unclassified to classified systems, improving exporting speed by 400%.

Blackhawk Network June 2024 – December 2024

Technology Intern

- Spearheaded development of an image recognition service on E-Commerce platform to automatically evaluate user-submitted images for inappropriate content, streamlining custom gift card purchase process.
- 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

- Managed 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.