Jason Kim

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WORK EXPERIENCE

Ranger
Contract Forward Deployed Test Engineer | June 2025 - July 2025

- Deployed as a **QA Engineer**, leading E2E testing for **$100K+ contracts** with **Surge AI and Unstructured**.
- Developed **20+ Playwright tests** in TypeScript/JavaScript, boosting test coverage to **75%** and cutting regressions.
- Engineered and integrated automated test suites into client workflows via **Github Actions** and Ranger's internal **CRON/Dashboard system**, enabling seamless **CI pipelines** and accelerating deployment cycles.
- Streamlined QA Workflows via **Linear**, improving bug triage and ensuring timely, high quality deliveries.
- Facilitated customer meetings, delivering actionable insights with **Power BI** dashboards and visual analytics.

MetLife Inc.
Software Engineer Intern, Business Analysis Team | May 2023 - August 2023

- Launched a report creation tool for MetLife's ledger system using **Java, Oracle SQL Developer, and Azure DevOps** in an **Agile environment**, collaborating with cross-functional teams through sprint planning, stand-ups, and iterative feedback cycles.
- **Processed over 1,000,000 insurance data points** for the **$19.2B VALE Risk Transfer projec**t between MetLife and Global Atlanti**c** by implementing **partitioning, query tuning, and data analysis with Informatica,** resulting in a **20%** improvement in database query efficiency and speed.
- **Improved scalability** of MetLife's ledger system by **containerizing microservices** with Docker and **migrating storage** to Oracle MySQL Cloud, cutting provisioning time by **15%.**

PROJECTS/CONTRACT WORK

UVA Tour Guide App

- Built a UVA Tour Guide ap**p** used by **500+ students**, integrating the Google Maps API for interactive navigation.
- Developed a **REST API with Django** to handle locations, reviews, and authentication, backed by **PostgreSQL** on **Heroku Cloud**.
- Used **Git/GitHub Actions CI/CD** for version control and automated pipeline management.
- Delivered a responsive interface with **Python, HTML, CSS, and Bootstrap**, enabling **200+ user reviews** and a **200% traffic increase** in the first month via Google Analytics insights.

Sign Language Detector

- Developed a real-time Sign Language Detector using **Python, TensorFlow and OpenCV,** applying grayscale preprocessing and **NumPy**-based matrix computations to train a multi-layer neural network on **5,000+ gesture images**.
- Achieved **~90%** classification accuracy across **20+ signs** and processed video input at **~15 FPS**, demonstrating the project's potential for accessibility and real-time human–computer interaction.
- Extended into an agentic AI prototype by integrating gesture recognition with **LLM**-driven natural language generation **(LangChain + open-source LLMs such as LLaMA 3/Phi-3)** and text-to-speech **(gTTS)**, enabling autonomous interpretation of signs and real-time spoken/text responses for accessibility.

EDUCATION

University of Virginia
B.A. in Computer Science   **Aug 2021 - Dec 2024**

SKILLS

Languages: Python, Java, C, SQL, TypeScript, JavaScript, HTML/CSS, R
Frameworks/Libraries: React.js, React Native, Spring Boot, Django, Expo, Node.js, Bootstrap, Playwright, OpenCV, NumPy
Tools & Technologies: Git, Github, Docker, Azure DevOps, Azure Kubernetes Service (AKS), Jupyter Notebook, Heroku, Jira, Cursor IDE
Relevant Courses: Data Structures and Algorithms, Computer Systems and Organization, Discrete Mathematics, Software Development Essentials, Advanced Software Development, Cyber Security, Artificial Intelligence