

Jae Kim

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SUMMARY

Backend-focused **Software Engineer** with experience building scalable systems, integrating APIs, and deploying full-stack applications to cloud environments. Skilled in **Python, SQL, REST API design, and cloud deployment**. Specialized in AI-driven automation solutions—leveraging machine-learning classifiers and workflow orchestration to eliminate manual processes and dramatically boost operational efficiency.

TECHNICAL EXPERIENCE

Software Engineer (Freelance)

Remote

Independent Project / Client Work

Dec 2024 – Present

- Built a serverless AWS pipeline (**SES→S3→Lambda + Textract**) that redacts Korean SSNs in PDFs, logs to MySQL, and returns compliant files in 6 s — eliminating manual PII
- Built a real-time fleet-management web app in **React/FastAPI**, using **Firebase Auth + Firestore** to stream live driver-truck-job data and replace manual spreadsheets

Jlockbusters — Full-Stack Movie Search Engine

Jan 2024 – Mar 2024

Personal Project

jlockbusters.com

- Built a full-stack web application using **Spring Boot (REST API)** and **React** for dynamic movie search
- Implemented **Google reCAPTCHA** and session-based authentication for secure user sessions
- Deployed to **AWS** using Docker with **Nginx reverse proxy**, improving uptime and reliability
- Architected **MySQL master-slave replication** for read/write separation, reducing query latency

Tri Pointe Homes

Irvine, CA

Software Engineer (Automation & Backend)

Oct 2021 – November 2024

- Designed and implemented an **SVM-based classification pipeline** for 200K+ support tickets (84% accuracy), saving **3,000+ manual hours**
- Built **ETL pipelines in Python** to process **1M+ records**, automated orchestration with **Apache Airflow** for reliability
- Developed **SQL schemas** for performance reporting; optimized for scalability and query efficiency
- Built **Apache Airflow-scheduled** integrations for DocuSign, Freshservice, and Laserfiche, automating ticket entry cutting manual effort by 90 %
- Implemented **employee lifecycle automation** using Python + REST APIs, reducing onboarding time from 3 days to 2 hours

Tri Pointe Homes

Irvine, CA

Developer Intern

May 2021 - Sep 2021

- Automated ERP data uploads via **SQL scripts**, reducing manual processing time by 99%
- Processed and normalized 400K+ user records using **Python** and **pandas** to improve reporting accuracy

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, JavaScript, HTML/CSS

Frameworks: FastAPI, React, Spring Boot, JUnit, Express

Developer Tools: Docker, AWS (Lambda, S3, ECS, EC2), Apache Airflow, React, Maven, Git, Docker, Kubernetes, Tableau, Mulesoft, Firebase

Libraries: pandas, NumPy, Matplotlib, Scikit-learn

EDUCATION

University of California, Irvine

Dec 2023

B.S. in Computer Science (Systems and Software)