

KEVIN KANG

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EDUCATION

Brown University

B.S. Computer Science (Machine Learning & Data Science), GPA 3.80

Providence, RI

Sep. 2019 – May 2023

EXPERIENCE

Software Development Engineer

Amazon, Artificial General Intelligence

Seattle, WA

Mar. 2024 – Present

- Led data privacy initiative using Glue ETL (Python + Spark) jobs to identify & delete 1.8B non-compliant DynamoDB records in an AlexaAI tier-1 service and established regex-based filter for ingressed records, which reduced monthly costs by \$100,000+; received recognition by the director of AGI, and ensured GDPR & COPPA compliance for Alexa
- Automated model project onboarding for LLM cataloging service via SFN and CFN development; cutting onboarding time by 83%, minimizing human error for manual deployment, and saving an estimated 120+ engineering hours YOY
- Remediated critical security risks by auditing 200+ PB of LLM checkpoint data, restricting overly permissive IAM policies, automating FSx DRA onboarding, and revoking access for 30+ unauthorized egress roles
- Built asynchronous LLM artifact upload status tracker with 300+ daily invocations using SNS, SQS, and Lambda

Software Development Engineer Intern

Amazon Web Services, Industrial Products

Washington, D.C.

May 2023 – Aug. 2023

- Delivered a Java microservice leveraging Elasticsearch and conditional fuzzy-match (Jaccard, Levenshtein, Manhattan) to surface 3000+ JSON blueprint documents stored in S3 based on similarity
- Implemented two REST endpoints via API Gateway + Lambda, enabling downstream customer to decommission legacy UI, reducing maintenance overhead
- Conceived project architecture and business logic, earning “Exceeds Expectations” rating in performance review

Undergraduate Teaching Assistant

Brown University Computer Science Department

Providence, RI

Sep. 2021 - May 2023

- Instructed 500+ students across courses (CS1951a, CS1870, CS111), leading labs, conducting office hours, grading assignments, and mentoring final projects; topics included Racket, Python, Java, ML, SQL, and Bayesian probability

Software Engineer Intern

Syntouch Inc.

Los Angeles, CA

Jun. 2021 – Aug. 2021

- Developed an interactive dashboard with ipywidgets, implementing filtering across 10+ attributes, and 5+ graphs
- Customized data reporting for 3+ Fortune 100 clients by creating graphs which enhanced client insights

Research Intern

Idealab

Pasadena, CA

Jun. 2018 – Aug. 2018

- Engineered image capture program in Python, collecting 1000+ images, enhancing dataset for image recognition
- Optimized Elementary’s Intel 3D Realsense camera for recognition training on Robotic arm via manual calibration

SKILLS

Languages: Java, Python, TypeScript, JavaScript, C, C++, LaTeX

Web Development: React.JS, HTML, CSS, REST API, Node, Spring, SQL, Jest

Cloud & AWS: CDK, S3, DynamoDB, Lambda, SFN, SQS, SNS, Glue, EC2, CloudFormation, API Gateway, CloudWatch

Libraries: Pytorch, Tensor Flow, Pandas, NumPy, Matplotlib, sci-kit, Beautiful Soup

Tools: Git, Bash, Github, Google Suite, Microsoft Suite, Agile, Jira

PROJECTS

Through the Centuries | Python, Tensorflow, Pandas, Jupyter

Nov. 2022 – Dec. 2022

- Constructed a CNN painting genre classifier utilizing ResNet50 while retraining two additional dense layers to achieve a 99.64% training and 58.14% testing categorical accuracy

Crossword Editor | React, HTML/CSS, JavaScript, Firebase

Mar. 2022 – May 2022

- Developed and web hosted Crossword Puzzle Editor with predictive on-click auto-complete, cardinal navigation, and real-time storage/retrieval of puzzles