Raiden Jay Kim

Software Engineer

Personal Info
● 678-431-6337
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Technical Skills
Programming Languege:
Python, C, C++, Java
HTML, CSS, JavaScript
MATLAB, SQL

Frameworks & Libraries:
NumPy, Pandas, Scipy
Scikit-Learn, Streamlit,
React.js, Room

AWS:
S3, CloudFront, AWS Cli
EC2, DynamoDB

Database & Visualization:
MySQL, SQLite
PowerBI, Excel,
VBA & Macros

Environment:
Windows, Linux, VMware
VirtualBox

Project Management:
Monday.com, Conceptboard
PowerPoint

Certifications
AWS Solutions Architect
Associate
AWS Cloud Practitioner
Forrester's B2B Marketing

WORK EXPERIENCE

SIEMENS

Software Marketing   *May 2022 - Present*
- Built and deployed an **AWS-hosted static web page** using HTML, CSS, and JavaScript, leveraging S3 and CloudFront to showcase internal marketing demos, trials, and CAD datasets – **doubling internal engagement within three months**.
- **Integrated an AI-powered chatbot** for an internal generative AI initiative with enhanced communication of product value propositions.
- Customized automated software trial reminder emails template with HTML and CSS.

Product Development Engineer   *February 2018 - May 2022*
- Invented and secured **five granted patents** for product design innovations, with two implemented in commercial products generating over **$200 M in annual revenue.**
- Developed a **Flask-based real-time dashboard** that parsed 3D-printer runtime logs into structured JSON and displayed card-style printer status, progress, and queue updates through periodic polling.
- **Automated thermal data acquisition and analysis** using Python, streamlining temperature testing workflows and reducing manual data processing by **80%.**

PROJECT EXPERIENCE

Machine Learning Stock Trading App - https://machinelearningstocktrading.streamlit.app
- Built an interactive Streamlit web app that integrates live financial APIs and trains a bagged random tree learner on technical indicators to **generate daily trading signals** and portfolio performance analytics.
- Implemented robust data pipeline with intelligent **caching layer**, API rate-limit handling, and offline dataset fallback.

Job Comparison Android App
- Built a native Android app in Java that allows users to compare multiple job offers, providing interactive ranking and side-by-side comparison screens
- Implemented **data persistence with Room (SQLite) and a modular UI flow** for adding offers, adjusting job comparison settings, and viewing results across sessions.

High-Performance Parallel Sorting System
- Designed a scalable parallel sorting system in CUDA/C++ for 10M+ elements using GPU acceleration, **achieving 76× speedup over CPU**.
- Optimized kernel launch configurations and memory access patterns to maximize throughput and resource utilization.

Portfolio Webpage - https://raiden3070.github.io/RaidenKimPortfolio/
- Designed and developed a **responsive personal webpage** using HTML, CSS, and JavaScript, hosted on GitHub.

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science   *January 2024 – December 2026(expected)*
- GPA: 4.0

Bachelor of Science in Mechanical Engineering   *August 2014 - May 2017*