KEVIN MEDINA

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EDUCATION

Columbia University, Columbia College, New York**,** NY **May 2024**
Bachelor of Arts in Computer Science

TECHNICAL SKILLS

Languages: Python, Kotlin, Java, Ruby, SQL, R
Technologies: React, Pandas, Elasticsearch, Ruby on Rails, Apache Airflow, LlamaIndex, Amazon Web Services

EXPERIENCE

Research Data Engineer, Columbia School of Social Work, New York, NY **September 2022 – Present**

- Architected and implemented a custom data pipelining solution using Python and the Qualtrics API to automate and standardize cleaning operations, achieving 90%+ test coverage to ensure data integrity. Reduced manual labor by 8+ hours per week and cut data intake, cleaning, and analysis preparation time from a week to seconds.
- Engineered a cloud-based ETL framework utilizing Amazon S3, Apache Airflow, and Google BigQuery to orchestrate and monitor complex data transformation workflows. This solution standardized data integration across 10+ research environments and bolstered operational reliability as research operations scaled.
- Developed a user-friendly data pipelining intermediary layer using React as a frontend to define and upload data cleaning logic, enabling non-technical team members to communicate complex data cleaning requirements and automate them through the data pipeline, increasing the number of cleaning tasks per hour completed by 32%.

Android Software Engineering Intern, TIAA, Charlotte, NC **June 2023 – August 2023**

- Migrated the IRA Retirement screen code from legacy Java to Kotlin and implemented a comprehensive mobile frontend redesign to improve user navigation and information accessibility, resulting in a 9% decrease in support tickets and an 18% increase in feature traffic, serving up to 500,000 users per month.
- Designed the backend architecture of an award-winning AI MVP website for client financial wellbeing utilizing Amazon S3, Lambda, SageMaker, and DynamoDB, resulting in a working demo in just 3 days that empowered users to create actionable and concrete financial plans. Presented the solution to executive stakeholders and received a Technical Innovation Award for the most feasible AI-driven financial product.
- Identified application vulnerabilities by consulting external pentesting companies and produced a comprehensive vulnerability report, addressed over 6 critical vulnerabilities and developed a feasible 8-week timeline to address other issues, contributing to a 20% increase in security ratings from our pentesting partners.

Code Next Intern, Google, New York, NY **July 2021 – March 2022**

- Mentored 35+ students daily in embedded Raspberry Pi development, enabling students to successfully complete 38 embedded projects, fostering a strong foundation in hardware-software interaction.
- Reviewed and approved sections of the technical curriculum to ensure its effectiveness in preparing students for college-level coursework, leading to a more robust educational program that met academic standards.

PROJECTS

DIY Minesweeper | *C++, VESC Tool*

- Developed a low-cost, steel-based minesweeping solution designed for resource-constrained, conflict-affected regions, reducing mine clearance costs by 90% compared to commercial alternatives, reducing clearance risk.
- Oversaw the selection and design of robust, cost-effective electronic components to optimize performance in harsh environments.

AI Resume Personalizer | *Python, FastAPI, LlamaIndex, LiteLLM, OpenRouter, Qdrant, PostgreSQL*

- Engineered an AI-powered resume personalizer that automatically generates ATS-ready resumes in STAR format by extracting and prioritizing relevant experiences, streamlining job applications for users.
- Developed a scalable backend API using FastAPI, integrating a Chrome extension and RAG pipeline with LlamaIndex, Qdrant, and PostgreSQL to enable seamless job description imports and enhance retrieval accuracy for resume customization.