

VICTOR RAMIREZ

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Self-driven and enthusiastic technologist with 10+ years of experience in software and cloud engineering roles. Excited to apply my new skills in artificial intelligence, machine learning, and data science to solve complex problems and increase financial investment returns. Proven experience in identifying high-impact use cases, designing end-to-end solutions. Skilled at bridging technical and business domains, collaborating across teams, and providing strategic technical guidance.

TECHNICAL SKILLS

- Generative AI and Models: OpenAI GPT Family, LangChain, LangGraph
- Languages: Java, C#, C++, Python (NumPy, Pandas, Scikit-learn, Keras)
- Database Systems: MySQL, Microsoft SQL, Postgres, NoSQL
- Data: Cleaning, Analysis, Modeling, Visualization
- Orchestration: Docker
- Research: Probability and Statistical Analysis
- Cloud: AWS, Azure
- Web: HTML, CSS, JavaScript, jQuery, Bootstrap

EDUCATION

MAY 2023

MASTER OF INFORMATION AND DATA SCIENCE, UNIVERSITY OF CALIFORNIA, BERKELEY

3.81 GPA

BACHELOR OF SCIENCE, COMPUTER SCIENCE, CALIFORNIA STATE UNIVERISTY MONTEREY BAY

COURSES

- INTRODUCTION TO DATA SCIENCE PROGRAMMING
- RESEARCH DESIGN AND APPLICATIONS FOR DATA AND ANALYSIS
- STATISTICS FOR DATA SCIENCE
- FUNDAMENTALS OF DATA ENGINEERING
- APPLIED MACHINE LEARNING
- DATA VISUALIZATION
- MACHINE LEARNING SYSTEMS ENGINEERING
- MACHINE LEARNING AT SCALE
- CAPSTONE

PROJECTS

Data Analysis - NFL Games

Exploratory data analysis of an NFL dataset using Python, NumPy, and Pandas tools. The project emphasizes data exploratory and descriptive analysis.

Statistical Analysis - Movie Revenue

Required selecting and developing a research question, curate the appropriate data, then conduct a statistical regression study.

Data Engineering - Store Location Recommendations

Explore using NoSQL databases Neo4j, MongoDB and Redis to recommend a store physical expansion.

Machine Learning – Understand Hate Crime

Leveraged machine learning to understand hate crime. Completed data cleaning, model creating and hyper tuning. Used linear regression to discover strong relationships.

EXPERIENCE

Moody's Analytics - San Francisco, CA & New York, NY

2009 – Present

AI Architect

September 2023 – Present

- Serve as a trusted technical expert and advisor, offering guidance on the adoption and integration of AI solutions across various domains.
- Collaborate closely with the Product Manager to understand the AI product roadmap and translate strategic goals into actionable plans for internal teams.
- Develop and maintain comprehensive documentation, including user guides, API references, and tutorials, to enable stakeholders to effectively utilize AI solutions.
- Serve as a trusted technical expert and advisor, offering guidance on the adoption and integration of AI solutions across various domains.
- Design and deliver training programs to educate internal teams on the capabilities and usage of AI applications, fostering a culture of continuous learning and innovation.
- Assist in the triage, prioritization, and development of use cases for AI solutions, working closely with stakeholders to address their specific needs.
- Provide ongoing technical support to internal data scientists and engineers, troubleshooting and resolving issues promptly.
- Act as a liaison between the product team and other divisions within the organization, promoting collaboration and knowledge sharing.
- Stay up to date on industry trends and advancements in AI and machine learning, leveraging this knowledge to drive innovation and implement best practices within the organization.

Associate Director DevOps Architect

September 2015 – August 2023

- Advised on cloud architecture, cost studies, and designed secure infrastructure for enterprise cloud environments.
- Guided software development teams on best practices for cloud migration and adoption, ensuring safe and efficient deployment.
- Coordinated on-premises to cloud migration strategy, implementing effective DevOps solutions to support enterprise scalability.
- Managed relationships across teams, ensuring effective communication and alignment of infrastructure solutions with business needs.

KEY ACHIEVEMENTS

- Developed and delivered an internal GenAI podcast at Moody's, focused on leveraging AI for business use cases.
- Contributed to a UC Berkeley research group focused on multi-token prediction models, actively participating in paper reviews and discussions.