FRANCISCO MARTINEZ

Master of Computer Science Student focusing in AI/ML applications
University of California, Irvine

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PROFESSIONAL SUMMARY

Incoming MCS Student at UC Irvine | Aspiring AI/ML Engineer | Experienced in Full-Stack Web & Mobile Development

Motivated and solutions-driven developer with leadership experience and a solid foundation in AI/ML, web, and mobile technologies. Skilled in building secure, scalable applications using relational databases, RESTful APIs, authentication services, and modern front-end frameworks.

EDUCATION

Master of Computer Science
University of California, Irvine

📅 Sept 2025 - Dec 2026

Bachelor of Science, Computer Science with Honors in the Major
California State University - Dominguez Hills

📅 Aug 2023 – Dec 2024

- Cumulative GPA: 3.0

PROGRAMMING LANGUAGES

Python Java C++

PROJECTS

Purrfect-Health, Full Stack Mobile Application
React Native, TypeScript, Expo Go, Firebase

- Developed a cross-platform mobile application using React Native and Firebase, enabling pet owners to manage feeding schedules, veterinary appointments, and routine care reminders, providing a user-friendly, cost-free alternative to subscription-based services.
- Implemented secure user authentication and data storage solutions, ensuring reliable and safe access to personalized pet care information.
- Designed and deployed the application using Expo, streamlining the development process and facilitating seamless updates and maintenance

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Personal Website
React.js, TypeScript, AWS S3

- Developed a responsive personal portfolio website using React, TypeScript, and Tailwind CSS, showcasing professional skills, certifications, and key projects to enhance personal branding and online presence.
- Integrated AWS S3 for secure asset storage and retrieval, enabling efficient access to professional documents such as résumé and profile photos.
- Automated a deployment pipeline to update the résumé from GitHub to AWS S3, improving update speed and ensuring the latest version is consistently accessible.

Cipher Care, Desktop Application
Java, Java Swing, MySQL

- Developed a secure healthcare application using Java Swing and MySQL, ensuring compliance with HIPAA guidelines through robust encryption of patient data
- Led the project using Agile Scrum methodology, facilitating iterative development and effective collaboration to address key challenges in healthcare administration.
- Implemented a user-friendly interface for managing patient records, enhancing data accessibility and streamlining administrative workflows.

RESEARCH EXPERIENCE

Research Assistant

California State University, Dominguez Hills

📅 Sept 2023 – May 2024　　　　　　　　📍 Carson, CA

- Conducted research leveraging AI/ML models and social network analysis to study misinformation propagation.
- Identified sub-networks vulnerable to misinformation due to high clustering and reliance on influential nodes, providing insights into structural vulnerabilities.
- Utilized Python, Pandas, and Pytorch to process large datasets and train predictive models

WORK EXPERIENCE

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Costco Business Center

📅 April 2021 – Present　　　　　　　　📍 Hawthorne, CA

- Applied analytical skills to identify and resolve inventory discrepancies to ensure product availability
- Demonstrated leadership by addressing safety concerns and collaborating with management to implement preventative measures
- Reduced inefficiencies in inventory management by utilizing problem-solving skills to optimize workflow

SKILLS

Communication | Leadership | Team Work & Collaboration | Responsible | Adaptability and Flexibility

Node.js | TailWind CSS | Mobile App Development | Git | MySQL | MySQL Workbench | GitHub | Trello

Ubuntu | AWS S3 | MySQL | PostgreSQL | Expo Go | Scrum, Agile | Pandas | PyTorch | Scikit-Learn

SHAP | NetworkX | Firebase Firestore/Auth