Andres Loera

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EDUCATION

California State University, Fullerton   Fullerton, CA
College of Engineering & Computer Science   January 2024 - December 2025
Major in Computer Science; Concentration Cyber Security
Relevant Coursework: Algorithms; Data Structures; Software Engineering; Operating Systems; Algorithms; Cyber Security, AWS

Riverside Community College   Riverside, CA
Associate of Science   Graduated Dec 2022
Major in Computer Science; Minors in Math & Science and Behavioral Science
Relevant Coursework: Algorithms; Data Structures; Data Analysis; Software Engineering; Operating Systems; Artificial Intelligence

WORK EXPERIENCE

Volo   Remote
Software Developer | DevOps Intern   Mar 2024 – Aug 2024
- Developed infrastructure as code with Terraform, cutting AWS provisioning time by 30%
- Optimized EC2, RDS, S3, CloudFront, and VPC, reducing costs by 25% while boosting performance
- Collaborated with development teams to integrate frontend & backend components, enhancing data flow efficiency
- Built serverless apps with AWS lambda and API gateway, increasing backend processing by 40%

NexGen Flex IT LLC.   Costa Mesa, CA
IT Specialist Intern   Mar 2021 – Apr 2024
- improved cloud data management with Microsoft 365 and Azure, enhancing accessibility and collaboration
- streamlined operations by migrating physical data to Azure, reducing storage costs
- Enhanced server performance and network reliability through proactive maintenance and upgrades
- Optimized office layouts and network design, improving workspace efficiency
- Provided remote client support, increasing satisfaction and reducing downtime

PROFESSIONAL PROJECTS

ACM FullyHacks Organizer   2025
- Developed and designed FullyHacks 2025 website with a team, enhancing the experience for 400+ applicants
- Built optimized UI components from Figma designs with Next.js, React, TypeScript, and TailwindCSS
- Refactored codebase to enhance maintainability and reduce technical debt
- Contributed to open-source practices, participating in code reviews, and submitting bug fixes and feature enhancements

Cafeteria Ordering System SaaS   2025
- Designed and built a system enabling multiple clients to manage menus, place orders, and process payment securely
- Designed a responsive UI with TypeScript, Tailwind CSS, and shadcn for real-time menu and order interactions
- Developed scalable REST APIs with Express and Mongoose to handle ordering, user management, and data isolation
- Integrated stripe for secure payment processing and deployed the app using AWS Amplify with CI/CD
- Architected the system to support onboarding of multiple cafeterias with isolated menus and customer data

Fine-tuning Llama3 using Direct Preference Optimization (DPO)   2024
- Conducted all development, training, and deployment processes using AWS.
- Using Supervised Finetuning (SFT) to train the input-output pairs to teach the model for more specific tasks
- Explored Reinforcement Learning with Human Feedback (RLHF)
- Model and Tokenizer for loading the base and reference models with quantization configurations for efficient computation.
- Set up Training arguments including batch size, learning rate, optimization strategies and logging using wandb a python library

ADDITIONAL

Technical Skills: Advanced in Python, Javascript, React, HTML/CSS, AWS, LLMs, ML, TensorFlow, Pytorch, UI Design, Outlook, Git, Jira, Slack; Windows, Linux, SQL, full-stack, Node, Cross Functional, Agile Development, UML Diagrams, RESTful API design, MVC Architecture
Languages: Fluent in English and Spanish