

# Mauricio Pastora

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## Work Experience

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### Junior Developer, Vertex Labs

February 2025 - Present

- Built out features for the Vinely.AI platform (Web scraper) that was integrated into the application
- Assisted in building out and testing MCP tools for Vinely.AI
- Currently designing and testing AWS infrastructure using S3 Tables, Amazon Athena, AWS Comprehend, and AWS Bedrock to optimize vector database performance and prevent unnecessary re-vectorization in a Bedrock-powered RAG (Retrieval-Augmented Generation) application for Vinely.AI.

### Software Consultant, Client: IIJS

Feb. 2025 - Present

- Architected and deployed a full-stack scalable contact management solution ([iijs-directory.app](#)), empowering company stakeholders to be able to view large amounts of data in one dashboard as enhancing organizational efficiency by 85% for client and stakeholder communications
- Tracks web application usage using Tableau in order to continually improve user experience
- Designed and implemented secure AWS infrastructure including EC2, RDS PostgreSQL, S3, Cognito with custom Lambda trigger for auth, Route 53 for DNS, and CloudFront with proper security groups and IAM policies
- Created CI/CD pipelines with GitHub Actions for both frontend and backend deployment, enabling automated testing and continuous deployment
- Built a responsive React frontend with TypeScript, Vite, TailwindCSS and Shadcn UI components deployed to S3 with CloudFront CDN distribution alongside a Flask RESTful API backend running on EC2 with an Nginx reverse proxy and Let's Encrypt SSL certificates
- Continuously debugs, tests, updates, and maintains software application

### Software Engineer, Arborea

June 2025 – Present

- Leading the ongoing implementation of full-stack features, including building dynamic Next.js pages and components (e.g., a responsive map interface using the Google Maps API), secure authentication, and user profile management using cookie-based SSR session handling, and designing scalable SQL/DDDL schema.
- Engaging in ongoing client meetings to define and prioritize MVP features, actively translating non-technical business needs into actionable technical deliverables
- Collaborating with a development team via GitHub Flow for version control, code reviews, and seamless integration of contributions

### Inter-American Institute on Justice and Sustainability, Business Dev. Associate

Sep. 2023 – Feb. 2025

- Leveraged Agile methodology during development alongside Python, SQLite, Tkinter, and front-end design, to build a solution that streamlined access to client and expert information, cutting retrieval time by 70%
- Managed comprehensive IT operations, including onboarding associate experts and interns, optimizing Teams workflows, configuring email accounts and access permissions, and collaborating closely with senior leadership to align IT solutions with organizational goals
- Wrote and presented pitch presentations for company initiatives to potential partners and stakeholders
- Spearheaded marketing campaigns using analytics from social media, external communications, and website management, increasing digital engagement metrics by 30%

## Education

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Virginia Commonwealth University, *Richmond, VA*

Graduated Spring 2023

**B.S. Marketing** | Relevant Coursework: Brand and Product Management

Florence University of Arts, *Florence, Italy*

Fall 2022

**Student Exchange Program** | Relevant Coursework: Entrepreneurial Marketing and Digital Marketing

## Skills

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### Programming Languages

- Python, SQL, TypeScript, Javascript, HTML, CSS

### Languages

- Spanish verbal and written fluency

### Technical Tools and Platforms

- Visual Studio Code, Canva, Amazon Web Services (AWS), Tableau, React, Next.js, Flask, Nginx, Supabase

### Certifications

- Amazon Web Services | AWS Certified AI Practitioner