

Mauricio Pastora

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Work Experience

Software Engineer, Arboria

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) and designing scalable SQL/DDL schema in Supabase
- Developing secure authentication and user profile management with Supabase Auth, integrating cookie-based SSR session handling through custom Next.js middleware.
- 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

Software Consultant, Client: IIJS

Feb. 2025 - Present

- Architected and deployed a full-stack scalable contact management solution ([iijs-directory.app](#)) leveraging AWS cloud services, enhancing organizational efficiency by 85% for client and stakeholder communications
- 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
- Engineered 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

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

Sep. 2023 – Feb. 2025

- Developed and implemented a scalable internal contact management database that seamlessly integrated data from multiple clients and associate experts
- 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

Virginia Commonwealth University, *Richmond, VA*
2023

Fall 2021 - Spring

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

Northern Virginia Community College, *Annandale, VA*

Summer 2019 - Summer 2021

A.S. Business Administration | Relevant Coursework: Management and Economics

Florence University of Arts, *Florence, Italy*

Fall 2022

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

Skills

Programming Languages

- Python, SQL, TypeScript

Languages

- Spanish verbal and written fluency

Technical Tools and Platforms

- Microsoft Office suite, Premiere, Photoshop, Adobe Express, SPSS, Visual Studio Code, Canva, Amazon Web Services (AWS), React, Next.js, Flask, Nginx, Docker, IPv4, IPv6, Networking/Routing

Certifications

- Amazon Web Services | AWS Certified AI Practitioner
- Harvard University | CS50 | Introduction to computer science
- freeCodeCamp | Web developer certification in HTML/CSS responsive web design