

Paul Robello

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SUMMARY

Innovative Systems Architect and Sole Developer with over 25 years of experience in software development and architecture. Developing secure and robust internet-facing applications. Seeking to leverage extensive AWS, Python, and AI expertise in a dynamic role to drive technological advancement and operational excellence.

EXPERIENCE

Principle Solution Architect L3 | Vista Tech | Fort Lauderdale, FL | February 2022 - February 2025

- Created end to end solution for a Webex AI powered bot to search for info about empty leg flights that could be booked by employees.
- Created GitLab CICD, Pulumi, Terraform, AWS infra workflows and solutions in a next-gen zero-trust enterprise environment.
- Created AI Vision OCR Pipeline to ingest contracts for use in an agentic RAG solution.
- Architected scalable infrastructure for large-scale distributed systems using microservices architecture, for inter-account network monitoring system with real-time streaming data for visualization named Monnet. Saving the company 20% on DataDog.
- Saved the company over \$100k / year by right sizing several RDS clusters and shutting down unused infrastructure.
- Engineered comprehensive data modeling frameworks, improving data consistency and integrity across 4+ integrated systems in a year-long initiative.
- Engineered robust API design to enhance interoperability between cloud-native applications, achieving a 30% reduction in data retrieval times through optimized RESTful services.

Software Engineering Manager | Vista Tech | Fort Lauderdale, FL | January 2019 - October 2021

- Manage and mentor a team of developers in addition to being a Senior Software Engineer.
- Work with the team in Agile SDLC, participate and lead code reviews, and prioritize all workloads.
- Used Jira, Confluence and Kanban to manage workload and team and sprints.

Senior Software Engineer | Vista Tech | Fort Lauderdale, FL | January 2013 - January 2019

- Full Stack web application programming, Reporting, Automation, Data Visualization, DevOps.
- Heavy use of PHP, NodeJS, AngularJS, Angular, React, MongoDB, MS SQL Server, Pervasive SQL, and Docker Swarm.
- Created many custom workflow tools for all departments within XOJET Aviation.
- Worked with subject matter experts at all levels from analysts to the CEO and created hundreds of automated and self-serve reports to assist the entire company with constantly increasing workloads..
- Engineered large-scale distributed systems for seamless data flow, achieving a 20% increase in processing efficiency by employing PHP, NodeJS, and Docker Swarm.

Sole Developer & Systems Architect | NCA Tile LMCC | San Francisco, CA | April 2011 - Present

- Created an internet-facing application portal for tracking tile union contractor compliance.
- The site handles large file uploads and downloads, and emails.
- Contains extensive logic for identifying patterns of violation by employers.
- Generation of reports that require computation of distance between work-related sites..

Senior Systems/Network Engineer | Promia Inc. | San Francisco CA | December 2001 - December 2012

- Setup and maintained all workstations, servers, and networks within enterprise network, including cyber warfare lab.
 - Implemented a custom domain controller/VPN solution, utilizing free software and minimal hardware, to facilitate the expansion, management, and security of network resources.
 - My role spanned multiple departments, requiring debugging, scripting, and automating various processes.
 - Contributed to the development of user-friendly real-time 2D/3D network asset management and monitoring tools. Built tools with Delphi and PHP web applications and integral to the company's flagship product line for the Department of Defense (DOD).
 - Integrated industry best practices into network infrastructure, optimizing security protocols and ensuring compliance, resulting in a 25% reduction in vulnerabilities over 18 months using Nessus and other pen-testing tools.
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CERTIFICATIONS

AWS Certified Cloud Practitioner | AWS | 2021

- AWS Certified Cloud Practitioner Credential ID CSQEYT2LBBB1S3C.
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SKILLS

AI: OpenAI, Anthropic, Google Gemini, Azure AI, AWS Bedrock, XAI, Groq, Ollama, LlamaCPP, LLM, Prompt Engineering, RAG, Langchain, LangSmith, Swarm, Qdrant, Chroma, PGVector

Programming languages: Python, FastAPI, Flask, Pandas, Numpy, Typescript, JavaScript, NodeJS, Express, Restify, PHP, PHP Composer, Java EE, Bash, PowerShell

IAC: Terraform, Pulumi, AWS CDK

AWS: Bedrock, IAM, EC2, ECR, ECS, Fargate, BATCH, RDS, Aurora, VPC, SSM, S3, EBS, DMS, Secrets Manager, Cloud Watch, Lambda, API Gateway, Event Bridge, DDB, ALB, NLB, SQS, SNS, SES, DDB, ASM, CloudFront, WAF, Route53, Athena, Localstack

Database: Aurora Postgres / Mysql, PostgreSQL, MySQL, MariaDB, Microsoft SQL Server, DynamoDB, MongoDB, Redis, Sqlite

Virtualization: Docker, Docker Swarm, Docker Compose, Containerization, VMWare

Data extraction, Reporting, Visualization, Automation, Integration, Workflows

Operating Systems: Windows, Linux, Amazon Linux v2/2023, Ubuntu, Debian, RedHat, Centos, Mac OSX

Frontend Web Dev: Next.js, React, Angular, RXJS, Vue, jQuery, Redux, Bootstrap, ThreeJS, D3, Websockets, Socket.io, Webpack, Parcel, Auth0

Version Control: GIT, GitHub, GitLab, Bitbucket

PROJECTS

GDC: Generic Development Container | PARCOM | github.com/devxpod/GDC | August 2022 - Present

- A fully containerized development environment with extensive support for AWS testing and deployments.
- GDC can decrease E2E testing time by over 50% by allowing developers to rapidly iterate without ever needing to deploy to AWS.
- Contains sidecar containers that allow for local AWS deployment testing and JWT authentication.
- Multiple GDCs can be combined where separate projects can communicate with one another.

ParLlama | PARCOM | github.com/paulrobello/parllama | June 2024 - Present

- Terminal-based UI (TUI) for most major cloud AI providers and local AI such as Ollama.
- Allows managing, downloading, and creating Ollama models.
- Chat with all major AI providers such as OpenAI, Anthropic, XAI, Groq, Deepseek, OpenRouter etc.
- Support for multimodal LLMs allowing for adding images to chat.

PAR Scrape | PARCOM | github.com/paulrobello/par_scrape | September 2024 - Present

- Versatile web scraping tool, featuring AI-powered data extraction and formatting.
- Tool uses libraries such as Selenium and Playwright to capture data even from highly disorganized and async loading pages.
- Support for crawling and extracting data in AI friendly Markdown format.
- Support for extract data points from pages even with fuzzy descriptions or unstructured layout.

PDF Ingest | PARCOM | github.com/paulrobello/pdf_ingest | October 2024 - Present

- AWS solution to OCR PDFs and images using AI vision.
- Utilizes S3, Lambda, and AWS Bedrock for secure and efficient OCR of complex documents.
- Extraction emphasizes accuracy while preserving formatting and layout of document.

Plant UML Lambda | PARCOM | github.com/paulrobello/plantuml | March 2025 - June 2024

- AWS solution to deploy a Lambda with URL to generate PlantUML diagrams.
- Fully self contained Lambda with Layer for private PlantUML generation.
- Minimal cost to run since charges only happen when the lambda generates a diagram.
- Can output SVG, PNG, and JPG images.

PAR Arch Diagram | PARCOM | github.com/paulrobello/par_arch_diagram | November 2024 - Present

- CLI tool that can look at any IAC folder/documentation and generate graphical arch diagrams using AI.
- The diagrams can be generated in seconds for any type of project with structures or relationships.
- The tool can look at IAC or a README file to gather the info needed.

PAR GPT | PARCOM | github.com/paulrobello/par_gpt | November 2024 - Present

- Powerful CLI tool to interact with LLMs both local and cloud-based to accomplish all manner of tasks.
 - Can be used in LLM or Agentic mode to unlock many custom tools such as search, web scraping, image manipulation.
 - Containerized code execution for LLM generated code and tools.
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