Alexis Tamayo

**LEAD DEVELOPER / PYTHON DEVELOPER / LEAD ARCHITECT:**

* 20 years’ experience as Software Engineer. 15 years programming in python, with 5 years in engineering leadership roles driving technical vision for projects, making key decisions on architecture, design, and implementation.
* Strong background in building scalable, secure API solutions to support Payment Processing mechanisms, underwriting software, Health platforms, Chatbots, VoiceBots, mobile and web applications.
* Oversee the entire SDLC for multiples solutions and manage complex projects with significant financial impact.
* Experience developing Prototypes and MVP for Startups in short amount of time.
* Experience integrating and building secure, High-Traffic, Low-Latency Restful APIs to support internal and third-party integration.
* Strong technical knowledge building complex AWS architecture.
* GEN IA, AGENTIC IA Machine Learning Developer, Open AI, Gemini, Deep seek. integration experience. NLTK. Etc.
* Design and implement database schemas that support any business size, MySQL, PostgreSQL and MongoDB, Others.
* Strong technical knowledge building large event drive solutions for automation.
* Experience building contact center solutions that use natural language processing and speech-enabled grammar, chat, SMS, ChatGPT, GenAI. AI Agent Assistants, IVR systems.

**FRAMEWORKS & LANGUAGES**:

Python, Django, Django Rest Framework, Data encryption, TensorFlow, Keras, PyTorch, Chabot’s, NLTK, NumPy, GitHub, HTML5, CSS3, Bootstrap, JavaScript, jQuery, Jira, R, SCRUD, Pandas, Twilio, Eleven Labs. OpenAI Agent SDK, Hugging Face, LangGraph, LangChain, N8N. Docker, Kubernetes, Elasticsearch, NodeJS, Vue JS, React, TypeScript, Redis, Memcache.

**SKILLS:**

Team player, great communication skills, problem-solving, and proven leadership.

**Full Stack Developer. Python / Django / Vue JS.**

**Company: IT Resources Innovation. Remote Nov 2024 – July 2025**

* Fixed and improved a warranty claim system for Honda in Puerto Rico.
* Implemented a backend with a RESTful API. (Python, Django).
* Implemented a new front-end workflow. (Vue.js / JavaScript).
* Azure Cloud native AKS, docker, Kubernetes, Redis, PostgreSQL.
* Twilio Integration.
* Develop a ETL processes to migrate a legacy system to a new system.
* Team member in an Agile methodology SDLC.

**Lead Solution Architect / API, Backend Developer. Python / Django / JavaScript**

**Company: Credit Apps Software. Boca Raton. Feb 2022- Oct 2024**

* Developed a full financial software solution to streamlines the entire credit application process, making it faster, more secure, and more transparent for everyone involved. Growing the company's valuation from $0 to $80 million in 1 years.
* Experience in developing different algorithms for assessing fraud, creditworthiness and risk. OFAC, Anti-money laundering (AML), Identity and Driver License verifications, 2FA, Synthetic ID, Discrepancy Matrix etc.
* Managed all the SDLC and the CI/CD pipeline to build, test, and deploy code until production with Agile methodology.
* Lead a teams composed of both full-time employees and contractors.
* Implemented a RESTful API. (Python, Django, JavaScript).
* Managed the implementation of all the security and SOC2.
* Skills with hands-on experience integrating LLMs (e.g. OpenAI, Hugging Face, Eleven Labs, GenAI. AI Agentic) to build an AI copilot assistance.
* AWS, EC2, S3, RDS, AWS, Redis, PostgreSQL, Celery, Docker, Kubernetes.
* Designed and implemented enterprise-grade AI solutions leveraging generative AI, machine learning, and advanced data modeling techniques.

**Full-Stack Lead Architect. Python/ Django/ JavaScript.**

**Company: S.I. Financial Corporation. Boca Raton. March 2020- Feb 2022**

* Developed a custom financial software solution to process loan applications and loan documents from dealerships, improving accuracy and efficiency by reducing time and costs by $450k.
* Collaborated with finance teams to implement custom algorithms to control loans requirements.
* Experience in developing different algorithms for assessing fraud, creditworthiness and risk. OFAC, Anti-money laundering (AML), 2FA, Identity verification.
* Managed all the SDLC and the CI/CD pipeline to build, test, and deploy code until production with Agile methodology.
* Implemented a custom internal CRM in compliance with financial regulations.
* Implemented a RESTful API. (Python, Django)
* Deployed the solution over AWS Cloud architecture. (LB, EC2, S3, RDS, Route53)

**Full-Stack Lead Architect. Python/ Django/ JavaScript.**

**Company: Search Firm Software LLC. Fort Lauderdale. Aug 2018- Apr 2020**

* Developed a custom recruiting software solution to search for passive candidates, improving the development time by 6 months.
* Managed all the SDLC and the CI/CD pipeline to build, test, and deploy code until production with Agile methodology.
* Implemented a customer face web application, custom company CRM back-end and RESTful API. (Python, Django).
* Deployed the solution over AWS. (LB, EC2, S3, RDS, Route53, CES)
* Implemented all data integration, data storage, data modeling, data warehousing, data mining, data analysis, and data visualization. Using multiples data partners / sources.
* Stripe payment integration.

**Lead Full-Stack Developer. Python / Django / JavaScript /API Architect.**

**Company: Vital One Health Plans Direct. Miami. (April 2016- Jun 2018).**

* Developed a custom dental software solution to search for available dentist in one area to book appointments with patients. Showing the average price others customer paid for the same procedure before.
* Extracted all business requirements, deployed into a JIRA project as software requirements to work on agile environment.
* Designed all technical documents for the architecture, artifacts, mockup, and workflow.
* Implemented Web-Mobile Applications, Custom CRM, Back-End and RESTful API. (Python, Django, Ionic Framework, JavaScript)
* Deployed the solution in amazon AWS. (Load Balancing, EC2, S3, RDS, Route53)
* Implemented a verification system from scratch as AI Voice-Bot solution with text to speech / speech to text & Machine Learning System Over Neural Network. (Python, MongoDB, TensorFlow, PostgreSQL).
* Implemented a pricing models algorisms to drive incremental margin and business performance, using Data Modeling, Data Mining, and Data Analysis to Extract & Clean prices for dental services from different API, Websites, CSV, DB, scraped websites, etc. (R, Tableau, Pandas, Selenium).
* Authorized.net payment integration.

**Full-Stack Developer. Python / Django / JavaScript.**

**Company: Health Benefits Center. Miami. (Feb 2015 - April 2016).**

* Implemented a new CRM using Python Django to fulfill business requirements.
* Designed, optimized Databases in MySQL & MongoDB.
* Develop a Restful API. Integrated with the CRM using Asterisk, Vici Dial, and Twilio.
* Develop a new Full Tracking Log System using Kibana and Elastic search.
* Load data into Elasticsearch with python.

**Full-Stack developer. PHP / JavaScript.**

**Company: Voxat Corp. Miami. (April 2010 - Feb 2015).**

* Implemented a social network clone from Twitter and Facebook.
* Developed PHP class to advanced image processing (Rotate, Re-size, Crop, Tag).
* Implemented algorithm to manage large amounts of email and SMS notifications.
* Developed algorithm to manage large amounts of user profiles, pictures and videos.
* Developed one electronic wallet to manage the virtual currency (Zat-dollars) and all electronic transactions between users and purchases.
* Developed a PHP API using Oauth2.0.
* Use advanced OOP with PHP to design complex data structures to development a custom CRM creating and adjusting all features to the needs of the business.

**Education**

Bachelor of Science in: Computer Engineer. 1998-2004.

Technological University of Havana, ISPJAE/ CUJAE

**ADDITIONAL CERTIFICATIONS:**

* TensorFlow for Artificial Machine Learning, and Deep Learning 2020 (Coursera)
* Python 3. 2018 (Coursera)
* Neural Networks and Deep Learning. 2017 (Coursera)
* Intermediate PHP and MySQL. (Miami Dade College)
* Project Management fundamentals. (Miami Dade College)
* Introduction to Microsoft Project 2010. (Miami Dade College)