

Martyn Garcia

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Online Resume

Objective

Full stack engineer with expertise in emerging technologies, focused on innovating and helping startups scale.

Expert Skills:

- **Languages:** Python, Ruby, Javascript, Coffeescript
- **App Servers:** Rails, Sinatra, Flask, Bottle, Quart, Express, node.js
- **Databases:** postgres, mysql, couchdb
- **DevOps:** docker, docker-swarm, AWS, S3, EC2
- **Front-end:** React, htmx, HTML, CSS, BOS
- **Machine Learning:** pytorch, tensorflow, numpy
- **Roles:** Full-stack, Backend, ML

Additional skills:

- **Languages:** Rust, C, Java, Groovy
- **DevOps:** CI, Deployment Automation, Scaling, Monitoring
- **Payments:** Web3, Blockchain, Smart Contracts, Payment Chains
- **APIs:** API development, REST, CRUD, SSE, Websockets
- **AI:** LLMs, Prompt Engineering, Stable Diffusion, GANs, Generative AI, ChatGPT
- **Blockchains:** Hive, NEAR, XNO
- **Authentication:** SSO, Oauth, SAML, SCIM
- **Methodologies:** TDD, Agile, SaaS
- **Tools:** vim, linux, git, tmux
- **Other:** Prototyping, R&D, Scaling, Fast learner, Conducting Interviews

Education

B.S. in Computer Science, minor in Mathematics

Texas Tech University

Dean's list last 2 years, ACM programming team member.

2005

Lubbock, TX

Job Experience

255 LABS(previously 255 BITS)

03/2021 - current

Co-owner

Denver

Developed DevOps tools to cross-compile Docker images to ARM64, achieving a 90% reduction in server costs.

Deployed microservices across a range of technologies utilizing Docker Swarm.

Rebuilt a PHP app in Python and upgraded Node and React to their latest major versions.

Built an AI pipeline for LLM inference, integrated with the ChatGPT API.

Explored cryptocurrency and AI applications for emerging markets, including developing a NEAR smart contract in rust.

Supported Wix applications and customer base across diverse technologies.

Technologies: python, pytorch, postgresql, couchdb, LLMs/chatgpt api, docker, AWS, web3, Rust

Files.com(previously Action Verb) 02/2019 - 03/2021
Senior Backend Engineer Remote
Rejoined the team to scale operations after previously working here in 2013.
Developed Single Sign-On (SSO) services, including SAML Service Provider (SP) and OAuth 2.0.
Implemented a SAML IDP for internal team management software.
Constructed a SCIM integration for user synchronization with Okta and Auth0.
Collaborated with Microsoft QA engineers for Office 365 backend integration.
Contributed to core functionality and REST API development.
Refactored billing system, enhancing robustness and functionality.
Scaled out the notification system for extensive email dispatch.
Technologies: ruby, rails, mysql, javascript, React, SAML, SCIM

Lifelink 2017
Software Consultant
Consulted on using ML techniques for early chatbots. I designed and developed a TF-IDF baseline that was used as a first layer customer support(matching user requests to help).
Technologies: groovy, grails, javascript, microservices, docker, AWS

Mystery Science 03/2016-02/2017
Software Consultant
I integrated metrics and rebuilt the signup workflow. I worked with direct marketing to establish a customer email outreach funnel.
Technologies: ruby, rails, data analytics

Burro labs 2016
Software Consultant
I implemented a voter segmentation model using tensorflow/python. The architecture was designed and implemented by me based on google research. I used test/train metrics to determine accuracy of voter prediction. I helped build a data pipeline for enhancing those predictions.
Technologies: TensorFlow 1.0, python, AWS SNS

Cardfree 04/2013-08/2015
Senior Engineering Consultant Denver
Worked on proof of concepts and helped with projects including a payment/loyalty engine. Built a puppet infrastructure project to codify our requirements and abide by PCI and other regulation. Helped build a marketing/promotion tool used by QSRs to automate setup of loyalty programs.
Technologies: groovy, java, ruby, puppet

Action Verb(now Files.com) 08/2012-09/2013
Senior Software Engineer Remote
Part of initial 3 person team working with founder on SaaS file sharing solution for organizations. Re-worked core systems to handle scalability and redundancy challenges. Worked with team to release new UI. Added several core features. Improved transparency and support. Conversion funnel optimization.
Technologies: ruby, rails, mysql

255 BITS

Started 3/16/12

Co-owner

Denver

Independent development. Built products for website owners to help automate parts of their business with various SAAS components. Built, deployed, and marketed several different applications on Wix in a variety of languages. Mostly in spare time.

Technologies: php, javascript, ruby, React, html

Format Dynamics

08/2011-08/2012

Software Engineer

Denver, CO

Developed a HTML5/CSS3 tablet reader which reformats article content into a tablet-friendly format. Responsibilities included building and maintaining server-side article decoder/caching service in mongodb. Built client-side layout engine. Onboarded clients and built demos for investors and potential clients.

Technologies: javascript, cdn, html, mongodb

ReadyTalk Web Conferencing

05/2008-08/2011

Software Engineer

Denver, CO

Worked with a very talented team of engineers using Agile methodologies and techniques. Worked mainly on the conference center application, which is the web application conference chairpersons use to schedule and manage their meetings and campaigns. Built an email layout and sending system that sent out millions of emails through custom smtp servers. This was before sendgrid and similar services so it was much harder at the time. It used java and ActiveMQ. Pushed for early adoption of git and emergent technologies.

Technologies used: java, ruby, javascript, html

Ascendant Technology LLC

09/2006-05/2008

ILOG JRules Consultant

Denver, CO

Worked as an IBM ILOG JRules consultant, as well as working on an in-house content management system document viewer named Kyte Viewer.

Technologies: java, rules engines, javascript, html

Hackathons**AITRAINSYOU.COM**

Oct 7-8 2023

An AI edtech learning platform, 2nd place winner in the Denver Startup Week Generative AI Hackathon.

Technologies: Python, Docker, Amazon Bedrock, Claude LLM, CouchDB, EC2, Route53, ALB

NEAR monsters

Aug 25 - Sep 10 2023

Custom smart contract and frontend for opening 'packs' of NFT 'cards'. Won 2nd place in the boshacks.com hackathon.

Technologies: Rust, NEP-141, NEP-148, NEP-171, NEP-178, React, BOS

Open source & Personal projects

echorealms - a creative writing site that uses LLMs to generate interactive content.

I built a system to generate a large amounts of choose-your-own-adventure branching paths for short stories using scalable amounts of compute.

Technologies: python, llama text-webgen-ui api, asyncio

GPT-Echo - a research project applying echo state networks to pretrained LLMs.

An exercise in learning how to use ChatGPT, this was an interesting idea I had a long time ago that I wanted to see the feasibility of. I learned a lot about autoregressive models, using pretrained LLMs, and sampling techniques by implementing it.

Technologies: python, pytorch, large language models

HyperGAN - a GAN framework I created with 1200+ stars.

I originally wrote this to explore what GANs were capable of. It started out in tensorflow but then I ported it to pytorch.

Technologies: python, tf1.0, pytorch

Social Media

- LinkedIn
- GitHub
- Online Resume

Hobbies/Interests

AI Research, Cryptocurrency enthusiast, Starcraft 2 Diamond (zerg)