NICKY MARINO

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SENIOR FULL STACK ENGINEER

Nothing brings me more joy than solving tough technical challenges and learning new technologies. I'm a results-driven and detail-oriented engineer with 3+ years of experience writing production code in Python and Typescript. Obsessed with finding the right balance between scalability and complexity.

TECHNICAL SKILLS

Languages: Python, Typescript, SQL, HTML, Java, Bash

Frameworks: React, Postgres, AWS, Serverless Framework, MUI, Flask, Django, Pandas, PyTest, Docker,

Kubernetes

Skills: REST APIs, Database Design, Unit Testing, CI/CD Pipelines, Microservices, Data Engineering, Git

Certifications: AWS Certified DevOps Engineer – Professional

AWS Certified Developer – Associate AWS Certified Cloud Practitioner

WORK EXPERIENCE

Senior Software Engineer, Full Stack

January 2022 - Present

Remote

Thoughtful AI

 Core contributor to every facet of our software stack, including the React frontend, backend Typescript REST APIs in AWS Lambda, Postgres data store, and Python telemetry SDK

- · Received annual All Star Award to recognize a year of perfect performance ratings from senior leadership
- · Reduced a product's start-up delay by 98% by migrating the service to AWS Lambda
- · Owned two full products for the company, including feature discovery, infrastructure design, implementation, and on-call support (Typescript, Python, AWS)
- Integrated automated testing into the CI/CD pipeline to reduce bugs and manual testing time on two products (Python, GitHub Actions)

Software Engineer

February 2020 – December 2022

Remote

ModelOp

- Deployed 5 ML models into enterprise production environment on time and on budget (Python, Kubernetes)
- · Architected an ETL process to generate and validate machine learning model results (Python, SQLAlchemy, Kubernetes)
- Enabled team to write runbooks quickly by creating an SDK to orchestrate workflows across multiple microservice REST APIs and a document database (Python, MongoDB)
- · Reduced runtime for a data pipeline to analyze 50M+ records by 40% less time via query optimization (Spark, Python)

Patent Engineer
Hanley, Flight & Zimmerman LLC

July 2019 - February 2020

Chicago, IL

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- · Built end-user GUI to view and update client database records (C#, SQL)
- · Wrote patent applications on ML implementations by synthesizing technical specifications from multiple stakeholders
- · Created professional patent drawings to depict ML architectures, novel algorithms, and circuit designs

Head Undergraduate Teaching Assistant

August 2016 - December 2018

West Lafayette, IN

Purdue Honors Engineering

- · Saved tens of hours of manual grading time by implementing an automated testing framework to grade code submissions (Python, Docker)
- · Created lesson plans for and taught review monthly sessions on Python programming for 200+ students

Software Engineer Intern

Indesign, LLC Indianapolis, IN

- · Developed UI to read and write RFID tag data by interfacing with a microcontroller (Node, JS, HTML, CSS)
- · Improved microcontroller RFID read speed by 25% through writing a custom RFID data parser (C, FreeRTOS)

Software Engineer Intern

Summer 2017

Summer 2018

Consumers Energy

Jackson, MI

- · Eliminated manual data validation by implementing an ETL to parse and validate NOAA weather data (Python, SQL)
- · Integrated datasets with millions of records into BI visualizations by building a OSIsoft SDK (Python, Scikit, C#)

Data Specialist

Summers 2015 and 2016

Freedom Mortgage Corporation

Fishers, IN

- Designed UI and database to efficiently search and update census data for home addresses (SQL, Visual Basic)
- · Independently created a GUI and database to package, store, and send loan documents (SQL, Visual Basic)

PROJECTS AND VOLUNTEER WORK

Virgo

https://github.com/nickymarino/virgo

- · Created a CLI wallpaper generator that supports custom configurations (Ruby)
- · Improved CLI performance by 30x through code profiling and data structure optimizations (see technical writeup)

Personal Website

https://nickymarino.com

- · Authored in-depth tutorials on data structures, such as implementing hash maps from scratch in Python
- Earned over 1,700 unique visitors per month through strong content and SEO

President, Board Member

October 2021 - Present

Local LGBTQ+ Group

Chicago, IL

- · Regularly hosted events with 70+ members to build community and raise funds for local charities
- Led a team of 7 board members through challenges such as COVID-19 and a leadership transition by encouraging active listening and collaboration
- Managed Google Workspace organization and Wordpress e-commerce website

EDUCATION

Purdue University

2015 - 2019

Bachelor of Computer Engineering, Cum Laude (GPA 3.86)