David M. Noll

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Technology Skills

Javascript/Typescript: Node.js, **React**, Vue, Redux, Prisma, Jest, Cypress
Python: Django, Flask, SQLAlchemy, Pytest
PHP: extensive experience in past, Yii, Laravel, WordPress
Haskell/Scala/FP: learning via coursera courses & practice in free time
DevOps: Azure, AWS, Heroku, Docker, MySQL, PostgreSQL, Linux, LAMP, Apache, IIS Networking
Some: Java, Android, Rust, Ethereum / Web3, ChatGPT API, Machine Learning, Statistics/Math

Experience

Lead Full Stack Engineer, *Dojo*, New York, NY (Remote)   2021-2023
Architecture
- Improved performance and maintainability through multiple phases of refactoring front end and back end, including adding progressive loading to d3 force graph visualization, improving DB schema

Infrastructure/DevOps
- Added Cypress, Pytest, and Jest tests from scratch & reached significant coverage, Implemented CI/CD pipeline in heroku, later switched to GitHub Actions
- Introduced Docker & Docker Compose local development & testing environment
- Created & maintained production, testing and dev environments in Heroku, AWS, passing security review process of fortune 500 companies

Features
- Increased performance of endpoint from several minutes to under 10 seconds for large projects, increasing feasible project size by 100x+
- Added AWS Lambda function with SAM to handle log drain
- Designed & implemented concept of groups, group member, node hierarchy
- Implemented new admin area to conform to JWT auth requirement of 3rd party pen test

Management
- Led remote team of 1 FT engineer as well as 2 regular full time contractors,
- Responsible for validating feature implementation plans, code review, quarterly feedback

Senior Full Stack Engineer, *Care.Coach*, Millbrae, CA   2018-2021
Architecture
- Designed & created Django-based internal service to house updated schema + machine learning models & integrations as well as collected, monitored & analyzed performance metrics and logs for reporting
- Upgraded video streaming architecture from Flash/RTMP to HTML5/WebRTC by implementing web client, server configuration, guiding implementation of Android mobile client

Features
- Upgraded security to meet standards of major client 3rd party security audit
- Integration with hospital EMR & our cloud-hosted SQL Server DB using Java Spring

Ops
- Introduced automated testing using Selenium
- Created & maintained production, testing and dev environments in Azure

Owner, *David M Noll LLC*, Louisville, KY   2014-2015, 2017-2018
- Created web applications in PHP, JavaScript, AWS EC2, shared hosting
- Designed and implemented Python desktop application for cryptocurrency trading

Interactive Developer, ***JUMP by LEAP agency*, Louisville, KY**   2015-2016
- Development with WordPress, Laravel or PHP/HTML, MySQL, JavaScript

IT Consultant, ***Derby City IT*, Louisville, KY**   2012-2013

Open Source

ChkFlow: a React component editor/view for tree data inspired by Workflowy's interface
GLTrader: desktop app for real-time monitoring of cryptocurrency market data via Bittrex API

Education

Rensselaer Polytechnic Institute, M.S. in Global Enterprise Management   2010
Case Western Reserve University, B.A. in Cognitive Science   2008