

David M. Noll

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Technology Skills

Javascript/Typescript: Node.js, **React**, Vue, Redux, Prisma, Jest, Cypress

Python: Django, Flask, SQLAlchemy, Pytest

DevOps: Azure, AWS, Heroku, Docker, MySQL, PostgreSQL, Linux, LAMP, Apache, IIS Networking

PHP: extensive experience in past, Yii, Laravel, WordPress

Haskell/Scala/FP: learning via coursera courses & practice in free time

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

- Designed and implemented a CI/CD pipeline in Heroku & GitHubActions and added an entire test suite using Cypress, Pytest, and Jest tests.
- Introduced Docker & Docker Compose local development & testing environment
- Created & maintained production, testing and dev environments in Heroku, AWS, passing rigorous security review process.

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 AWS Serverless Application Module to handle log drain
- Designed & implemented concept of groups, group member, node hierarchy
- Implemented new admin UI 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