

Datamura Solutions

Director - Systems and Technology

Seabrook, NH (Remote)

March 2022 – Present

- Established and led a high-performing team of software engineers
- Mentored development team through pair programming, code reviews, and debugging sessions
- Managed five developer team in maintaining a React and Node based operations portal for a fortune 500 pharmaceutical company
- Designed and implemented a supportive team culture by personally crafting and implementing a comprehensive software engineer roadmap and career development framework
- Provided professional development and skill acquisition through regular programming learning sessions
- Collaborated with product managers, stakeholders, and customers to define product requirements, prioritize features, and ensure alignment with business goals
- Led the management, design, and implementation of numerous large-scale web-based software development projects utilizing an in-house framework
- Partnered with senior leadership on strategic planning, roadmapping, organizational growth, internal research and development, and industry engagement initiatives

Esper Innovations

Owner

Epping, NH (Remote)

January 2020 – Present

- Architected, designed, and developed a custom web-based operations platform for a fortune 500 pharmaceutical company comprising dozens of process and workflow tools, data visualizations, user-customizable dashboards, data ETL processes, automation, and integration with Autodesk Tandem, Siemens Desigo, C•CURE, and SAP

React **Node** **JavaScript** **SQL Server** **Redis** **AWS**

- Designed and developed a custom web-based art print ordering platform featuring live preview functionality, complex pricing structures, and integration with QuickBooks

Laravel **Vue** **JavaScript** **Quickbooks** **AWS**

- Created a web-based ERP system for a screenwriting education and training platform

Laravel **Vue** **JavaScript** **Redis** **AWS**

- Developed a custom data synchronization platform between Zoom and multiple file sharing services

Node **Zoom** **Redis** **AWS**

- Provided technical consulting services to a biotechnology manufacturing company, advising on AWS infrastructure, internal tool development, software platforms, networking, and security

AWS **Python** **Vue** **Networking**

<https://davidrallen.com>

Core Competencies

Software Team Management, Software Architecture, Software Development, Project Management, Business Analysis, Database Design, Linux Configuration

Technology

JavaScript, Node, React, PHP, Python, Go, Vue, Laravel, Git, SQL (MySQL, SQL Server, PostgreSQL), NGINX, Apache, AWS, Linux (Debian, RedHat), Bash/Zsh

Education

Plymouth State University '12

B.S. Information Technology

Magna Cum Laude

Top 20 Senior Award,

Outstanding Student in

Information Technology Award

[Certified Laravel Developer](#)

[Level 4 CJIS Security Training](#)

Online Profile

[Stack Overflow](#)

[GitHub](#)

[LinkedIn](#)

[Personal Website](#)

- Taught accelerated 24 week program covering: HTML, CSS, JavaScript, Node, Express, MySQL, Sequelize, React, MongoDB, Mongoose, Unit Testing, Travis CI, Progressive Web Apps
- Developed supplemental resources for Python, MySQL, Vue, Angular

The Atom Group

August 2012 – November 2019

Senior Software Architect

Portsmouth, NH

- Lead projects for EMC, ZeniMax Media, Keds, Ben and Jerry's, Progressive, Merrill Lynch, Play Mechanix, and many others
- Developed multi-platform solar inverter hardware diagnostics tool
Go **Vue** **Unix Sockets** **WebSockets**
- Architected and developed a custom protein synthesis purchasing and manufacturing data analytics platform
Python **Django** **Vue**
- Lead five developer team in designing and building a multi-tenant ecommerce platform with taxes, discounts, transaction adjustments, and reporting with a complex prorated subscription system
Laravel **Avatax** **AngularJS**
- Developed touch-based digital-learning solution for banks utilizing real-time kiosks for scheduling, check-in, self-guided presentations, and decision tree questionnaires
Laravel **Chrome OS** **React**
- Developed HIPAA compliant clinical mental health research data reporting platform
Laravel **Vue** **HighCharts**
- Architected and developed analytics reporting engine and reporting interface for iOS application
PHP **iOS**
- Designed normalized databases for custom applications with strict referential integrity and stored procedures
MySQL **PostgreSQL**
- Implemented technical interview process and developer training program
- Lead team in migrating a large, distributed online gaming platform infrastructure to AWS
- Designed scalable, HIPAA compliant, load-balanced server infrastructures with caching, failover, and distributed databases, handling 1,000+ requests per second
- Conducted IT risk assessments following NIST SP 800-30/NIST CSF 1.1 guidelines; prepared formal reports for CTO/CIO/CSO executives
- Conducted data security audits of NH school districts following NH RSA 189:66
- Provided digital forensic analysis for local government agencies
- Partnered with clients to gather requirements and design solutions, producing detailed requirements documents