

Esper Innovations

Owner

Exeter, NH

January 2020 – Present

- Provided software development consulting services, developing custom web-based software applications for clients

React Node.JS MSSQL

University of New Hampshire

Adjunct Instructor - Full Stack Software Engineering

Portsmouth, NH

September 2019 – Present

- 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

Senior Software Architect

Portsmouth, NH

August 2012 – November 2019

Software Development

- 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 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
- Created photo sharing web application with filters, stickers, and captions
PHP ImageMagick
- Developed serverless infrastructure prototype
AWS Lambda API Gateway DynamoDB
- Architected and developed analytics reporting engine and reporting interface for iOS application API
PHP iOS
- Designed normalized databases for custom applications with strict referential integrity and stored procedures
MySQL PostgreSQL

David Allen

<http://davidrallen.com>

jobs@davidrallen.com

(603) 852-9228

Exeter, NH

Core Competencies

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

Technology

[Certified Laravel Developer](#)

[Level 4 CJIS Security Training](#)

Proficient

PHP, Python, JavaScript, React, Vue, Laravel, Git, MySQL, NGINX, Apache, AWS, Linux (Debian, RedHat), BASH

Competent

Django, Go, Ruby, Rails, Node.js, AngularJs, Less/Sass, Photoshop, Drupal, CakePHP, PostgreSQL, MongoDB, Redis

Education

Plymouth State University '12

B.S. Information Technology

Magna Cum Laude

Top 20 Senior Award,

Outstanding Student in

Information Technology Award

Online Profile

[Stack Overflow](#)

[GitHub](#)

- Conceptualized, architected, developed, and launched dozens of web-based software products ranging in disciplines from teacher planning to leadership development

Business Analysis

- Worked closely with user experience/user interface designers to design interface solutions to solve complex business problems
- Partnered with client stakeholders in gathering requirements, analyzing business problems, and designing solutions
- Authored requirements documents: functional specifications, flow diagrams, wireframes, test cases, technical specifications, EER diagrams, journey maps
- Performed business model canvas, card sorting, and domain-driven-design activities
- Developed mockups and prototypes

Management

- Implemented and executed technical interview process
- Authored and implemented developer training program
- Managed a five developer team in a year long, custom CMS and Ecommerce platform development project across three time zones
- Lead team in migrating a large, distributed online gaming platform infrastructure from on premises servers to Amazon Web Services
- Wrote proposals, outbound marketing campaigns, RFP responses, and performed other business development activities
- Performed project management duties including: scheduling and planning, resource allocation, burndown analysis, budgeting, customer communication, invoicing, task tracking, QA oversight

Server Management

- Designed and implemented load-balanced, highly scalable infrastructures with caching, zone and region failover, and distributed databases; performance tested at over 1,000 requests per second
- Configured over 50 production Linux environments
- Architected and implemented HIPAA compliant server infrastructures

Security and Compliance

- 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 several NH school districts following NH RSA 189:66
- Administered vulnerability assessments using Tenable tool suite
- Performed red team activities including phishing and pen testing
- Provided forensic analysis for local government agencies and fortune 5000 companies

Plymouth State University

Multiple Positions

September 2010 – August 2012

Plymouth, NH

- Designed and developed an equipment reservation system using a

custom MVC framework, opened-sourced and peer code-reviewed

- Worked as lead in researching and testing virtual desktop infrastructure services
- Call Center supporting 60,000+ university constituents, 1200+ calls logged