Richard Allen Miller

Senior Full Stack Engineer

richardallenmiller422@gmail.com | (909) 566-1068 | Hillsville, VA 24343, United States |
https://github.com/richardallenmiller | https://richardam.cloud

Summary

Senior Full Stack Engineer specializing in full-stack web application development, frontend engineering, backend services, RESTful APIs, third-party integrations, and database-driven applications. Experienced with JavaScript, TypeScript, Angular, React, Vue.js, C#, ASP.NET Core, Java, Spring Boot, PHP, and Python. Skilled in owning features from requirements analysis and technical implementation through testing, deployment, and production support. Experienced in designing maintainable application components, integrating APIs and databases, troubleshooting complex production issues, and improving application reliability and performance. Familiar with cloud platforms, CI/CD pipelines, containerization, application monitoring, secure development practices, automated testing, and AI API integration. Focused on delivering reliable software, resolving technical risks, and aligning engineering decisions with business requirements.

Technical Skills

- **Cloud & Infrastructure:** AWS, Microsoft Azure, Google Cloud Platform, Cloud Application Development, Cloud Deployment, Cloud Storage, Serverless Computing, Environment Configuration, Infrastructure Monitoring.
- **Containers & Orchestration:** Docker, Kubernetes, Containerization, Container Deployment, Container Configuration.
- **Infrastructure as Code:** Terraform, Ansible, Infrastructure Automation, Environment Provisioning, Configuration Management.
- **CI/CD & Automation:** GitHub Actions, GitLab CI/CD, Jenkins, Azure DevOps, Continuous Integration, Continuous Delivery, Build Automation, Deployment Automation, Release Management, Version Control.
- **Monitoring & Troubleshooting:** Prometheus, Grafana, Application Monitoring, Log Analysis, Performance Troubleshooting, Root Cause Analysis, Production Support, Application Reliability, Defect Resolution, Application Performance Optimization.
- **Development & Application Technologies:** JavaScript, TypeScript, HTML5, CSS3, Angular, React, Vue.js, C#, ASP.NET Core, .NET, Java, Spring Boot, PHP, Laravel, Python, Django, FastAPI, Node.js, Express.js, RESTful APIs, API Design, API Integration, JSON, HTTP, Third-Party Service Integration, Error Handling, API Documentation, Object-Oriented Programming, Service-Oriented Architecture, Responsive Web Design, Component-Based Architecture, Frontend Performance Optimization, Cross-Browser Compatibility, AI API Integration, LLM Applications, Conversational AI Integration, Prompt Engineering, Retrieval-Augmented Generation Fundamentals, AI-Assisted Application Features, WordPress, Drupal, Joomla, Strapi, Contentful, Sanity, Shopify, CMS Customization, Theme Development, Plugin Integration, Responsive Mobile Web Development, Progressive Web Applications.
- **Databases & Data:** PostgreSQL, MySQL, Microsoft SQL Server, MongoDB, Redis, Elasticsearch, Amazon DynamoDB, Google Firestore, Supabase, Database Design, SQL Query Optimization, Data Modeling, Database Integration, Data Access Logic, Caching, Relational Databases, NoSQL Databases, CRUD Operations.
- **Security & Access:** Authentication, Authorization, Role-Based Access Control, OAuth 2.0, OpenID Connect, Secure API Development, Input Validation, Secure Configuration, Application Security Best Practices, API Error Handling, Access Control.
- **Engineering & Collaboration:** Git, GitHub, GitLab, Agile, Scrum, Unit Testing, Integration Testing, API Testing, End-to-End Testing, Regression Testing, Test Automation, Debugging, Code Review, Refactoring, Frontend and Backend Integration, Quality Assurance Collaboration, Software Design Principles.

Work Experience

Serigor | Senior Full Stack Software Developer | United States | 08/2024-09/2026

- Owned full-stack feature implementation from requirements analysis and technical design through development, testing, release validation, and production support.
- Designed and developed maintainable frontend components using JavaScript, TypeScript, HTML5, and CSS3, standardizing form validation, asynchronous requests, reusable UI patterns, and error handling.
- Implemented backend services and RESTful API endpoints to enforce business rules, validate requests, coordinate data processing, and maintain consistent communication between application layers.
- Integrated relational and NoSQL databases with external APIs and third-party services, resolving data mapping issues and strengthening consistency across application workflows.
- Led investigation of complex application defects by tracing request flows, analyzing logs, reviewing database queries, and identifying root causes across frontend and backend components.
- Improved code maintainability and release confidence through refactoring, code reviews, automated and regression testing, secure development practices, and technical documentation.
- Supported CI/CD workflows, environment configuration, deployment verification, and AI API integrations, helping deliver application changes with clearer validation and troubleshooting procedures.

Centizen | Senior Full Stack Developer | United States | 02/2020-07/2024

- Delivered full-stack features from business requirements through implementation and validation, coordinating frontend, backend, and database changes across application workflows.
- Established reusable interface patterns with JavaScript, HTML, and CSS for responsive layouts, navigation, forms, and consistent browser behavior, reducing duplicated implementation across related components.
- Designed and maintained RESTful APIs and backend business logic for request validation, application workflows, data processing, and third-party service integration.
- Refined database access logic and SQL queries supporting CRUD operations and reporting workflows, addressing data retrieval issues and improving the maintainability of application data operations.
- Resolved integration failures across application modules and external services by investigating request parameters, response formats, authentication flows, and data mapping.
- Improved application stability through structured debugging, targeted refactoring, and unit, integration, and regression testing of changes across frontend and backend layers.
- Collaborated with QA engineers, developers, project managers, and business stakeholders to clarify requirements, review technical solutions, coordinate releases, and resolve delivery risks.

TechnoGen | Full Stack Developer | United States | 09/2017-01/2020

- Implemented end-to-end web application features spanning browser interfaces, server-side processing, and database-backed business functionality.
- Built interactive pages, forms, navigation, and reusable interface components using JavaScript, HTML, and CSS to support consistent user workflows.
- Developed server-side business logic and RESTful API endpoints with request validation, error handling, and service integration to support reliable application processing.
- Maintained SQL queries and database operations for application records, improving data handling consistency across create, retrieve, update, and reporting workflows.
- Connected frontend features with backend modules and external services, resolving data mapping, request handling, and response compatibility issues.
- Diagnosed defects across application layers, refactored fragile code paths, and performed functional and regression testing to prevent recurring issues.
- Worked with developers, QA team members, and project managers to clarify requirements, maintain technical

documentation, prepare environments, and validate releases.

EPC Group | Software Developer | United States | 05/2014-08/2017

- Developed and maintained business web applications by translating functional requirements into user-facing features and supporting server-side functionality.
- Implemented web pages, interactive forms, navigation elements, and client-side behavior using JavaScript, HTML, and CSS, maintaining consistent presentation across supported browsers.
- Built application logic with input validation and error handling to connect user interactions with backend operations and reduce invalid data submissions.
- Maintained SQL queries and database operations for business workflows and reporting, troubleshooting data retrieval and update issues.
- Integrated application components and services, resolving data exchange problems, dependency conflicts, and inconsistent behavior between modules.
- Investigated defects, implemented corrective changes, and coordinated with QA team members to verify functionality and regression fixes before release.
- Contributed to code reviews, source control, technical documentation, and release validation while maintaining existing applications and delivering requested enhancements.

N2 Solutions | Junior Web Developer | United States | 10/2010-04/2014

- Developed and maintained website pages and foundational web application features using HTML, CSS, and JavaScript.
- Translated design specifications into structured layouts, navigation elements, content sections, and interactive browser functionality.
- Implemented website forms, input controls, and client-side validation to improve data-entry consistency and support common user workflows.
- Maintained CSS layouts and page styling across supported browsers and screen sizes, correcting presentation inconsistencies and layout defects.
- Assisted with connecting website forms to backend processing and database operations to support application data submission.
- Diagnosed and corrected JavaScript errors, broken interactions, navigation defects, and page-rendering problems in existing websites.
- Tested links, forms, page rendering, and common user workflows, documenting issues and coordinating website updates and maintenance with team members.

Education

- **High School Diploma**

Carroll County High School | General Studies | 2006

- **Bachelor of Science (B.S.)**

Radford University | Computer Science | 2010