
STEPHEN CORLEY

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Summary

Highly skilled Principal Software Engineer with more than 12 years of experience specializing in C#, Azure Cloud, Architect, Design and Xamarin Native with a proven track record of successful leadership.

Adept at architecting and developing scalable cloud-based solutions while incorporating industry best practices. Demonstrated ability to lead cross-functional teams, mentor junior developers, and deliver high-quality software products.

Highly motivated and adaptive professional committed to continuous learning and growth, consistently seeking to explore and embrace new technologies and environments to drive innovation and stay at the forefront of industry trends.

Excels in fast-paced environments, delivering results through a combination of technical expertise, collaboration, and problem-solving acumen.

Education

Bachelor's degree in Computer Science (2006 – 2010)
University of Alabama

Skills

Language: C#, C/C++, Python, Typescript, Javascript, PHP

Backend Frameworks: ASP.NET, .NET Core, Apache, Django, Express, Xamarin, ADO.NET

Frontend Frameworks: React, React Native, Angular, .NET Web/Windows Forms

Paradigms: Microservices

Storage: PostgreSQL, MongoDB, Elasticsearch, Redis, MySQL (Workbench, dbForge), Oracle, Hibernate, Cassandra, MS SQL, SSIS, Hadoop, LINQ, PowerBI

Monitoring: OpenTelemetry, Loki, Grafana, Sentry, Micrometer, Prometheus

IaC: Ansible, Terraform

DevOps: Docker, Gitlab CI/CD, Kubernetes, Docker Swarm, AWS Beanstalk, Azure DevOps, GitOps

VCS: Git, SVN, Bitbucket, TFS

Testing: Mockito, JUnit, Jest, Cypress, Jasmine, Enzyme, Mocha, Chai, Nunit, Selenium, JMeter

Operating System: Linux, Unix & Mac, Windows

Familiar with: WebRTC, Web Logic, WCF, Jira, Tomcat, Progressive Web Apps, Nginx, Apache2, Jest, OpenVPN, Hasura, Web Scraping, MVC & MVVM Software Architecture, XML, Dependency injection, Scrum/Agile, FastAPI, GraphQL, TFS, SOAP, OOP, Microsoft Access

Employment History

PRINCIPAL SOFTWARE ENGINEER at Infosys

Raleigh, NC | Nov 2018 – Aug 2023

- Developed web applications, web services, RESTful APIs and mobile application using strong OOP, .NET C#, Angular 8+, React and Xamarin that allows manager to create schedule for their team members and allows team members to perform their day-to-day tasks.
- Developed web applications using ADO .NET, leveraging its data access capabilities to interact with databases, manage data connections, and implement efficient data retrieval and manipulation processes.
- Proficiently designed and developed web applications following design and architectural patterns like Model-View-Controller (MVC), OO design, SOA, Model-View-View-Model (MVVM) architectural pattern.
- Proficiently designed and managed cloud solutions on both AWS and Azure platforms, leveraging high-level skills in architecture, deployment, and optimization to drive operational efficiency and business scalability.
- Played a vital role to scale the application from 100 users to 100k users.
- Utilized agile methodologies in Scrum based environment.
- Contributed to the development of Terraform dashboards, streamlining infrastructure management and bolstering deployment efficiency.
- Worked closely with Entity Framework to simplify database interaction by working with databases using .NET objects and classes instead of writing raw SQL queries.
- Developed, maintained and optimized ETL processes using SSIS (SQL Server Integration Services) to extract, transform, and load data into MS SQL databases.
- Developed and delivered SOAP based Web Services for clients using Apache and SOAP UI to test the services.
- Employed C# and JavaScript, XML to create automatic documentation generator tools, facilitating the validation, rating, and updating of documentation for customer integration with third-party services.
- Developed robust integration tests using C# and NUnit containers to ensure accurate and reliable documentation examples, ensuring optimal integration with third-party services.
- Developed robust and user-friendly applications using .NET Web and Windows Forms.
- Crafted complex queries and optimized database performance using T-SQL and PL-SQL, enhancing data retrieval efficiency and supporting critical business processes.
- Maintained a cutting-edge approach by continually staying up-to-date with the latest trends and emerging technologies.
- Supported PM closely and led comprehensive code reviews and refactoring.
- Collaborated with clients throughout the software development lifecycle, actively engaging in requirements gathering, providing technical guidance, and delivering tailored solutions.
- Developed cross-platform mobile applications using Xamarin and delivered high-quality user experiences across both iOS and Android platforms.
- Leveraged the capabilities of Angular 8+ to architect and develop scalable single-page applications.
- Mentored junior developers, promoting a knowledge-sharing environment.
- Implemented real-time and bi-directional communication using WebRTC and WebSocket.
- Streamlined database queries, indexing, and caching mechanisms, to reduce data retrieval times and enhanced overall database performance.
- Led the engineering team as the technical lead, overseeing design decisions, code quality, and project deliverables to ensure alignment with architectural vision and business objectives.
- Utilized Visual Studio Team Services (VSTS) and Azure DevOps for streamlined collaboration, version control
- Developed custom Microsoft Power BI dashboards, visualizations, and interfaces with Microsoft SSRS to deliver meaningful and actionable insights.

- Configured and customized MS CRM Dynamics to align with business processes, including creating custom entities, workflows, and plugins.
- Managed version control and facilitated collaboration using Team Foundation Server (TFS), ensuring seamless code integration and streamlined release cycles.
- Demonstrated a consistent history of implementing successful deployment strategies that ensure smooth and efficient software releases.
- Developed automated test scripts with Selenium for web application testing and employed JMeter for load testing, contributing to enhanced software quality and performance.
- Leveraged ELK/Splunk for log analysis and visualization, extracting valuable insights from large datasets to enhance troubleshooting and identify optimization opportunities.
- Orchestrated the complete Software Development Life Cycle (SDLC) process, from requirements gathering and design to coding, testing, deployment, and maintenance.
- Implemented Test-Driven Development (TDD) and Behavior-Driven Development (BDD) methodologies.

Technologies: Terraform, Ansible, Redis, RabbitMQ, MS SQL, T-SQL, PL-SQL, LINQ, MongoDB, C#, ASP .NET, .NET Core, ADO .NET, Entity Framework, Web Forms, WebRTC, WebSocket, Xamarin, Angular 8+, Windows Forms, Python, gRPC, Bash, Git, Grafana, Docker, Kubernetes, Confluence, Oracle, Azure, Selenium, JMeter, SOAP

SOFTWARE ENGINEER at Capgemini

Houston, TX | OCT 2016 – OCT 2018

- Developed a web application using ASP.NET, Azure IoT Hub and C# that allows users to monitor KPIs of bottle production plant. Application collects data of machine sensors over Azure IoT Hub, applies grouping, segregation, and filtration to present it in human readable format over the website.
- Successfully engineered scalable and modular applications by adhering to design and architectural designs like MVC, MVVM, OO design, SOLID principles, DRY, etc.
- Designed and implemented robust authentication and authorization mechanisms, ensuring secure access control and safeguarding sensitive data across applications.
- Built and maintained continuous integration/continuous delivery (CI/CD) pipelines using Github Actions.
- Leveraged AWS and Azure service operator to streamline CD deployment from Github to Kubernetes.
- Developed tools and services in C#, VB.NET, ASP.NET, ADO.NET and .NET Core to integrate different solutions using Echo, MongoDB, and Redis, and documented REST APIs in Swagger.
- Used Entity Framework and LINQ to Entities to Connect to the database and perform all the database transactions.
- Implemented RESTful APIs and GraphQL to communicate with content management systems and data pipelines.
- Wrote automated tests at the unit and environment levels, achieving 95% test coverage and ensuring system reliability and correctness.
- Used Webpack as module bundler and Babel for compiling and build component-based React architecture and SASS preprocessing for configuring tasks.
- Used NPM and Browser to manage application dependency, Gulp to build and bundle applications, Webpack to hot deploy applications.
- Expertise in state management using tools like Redux, NgRx, Context API, and React Hooks, enabling efficient data flow and application scalability in both React.js and Angular.
- Utilized state-of-the-art frontend optimization techniques, such as code splitting, lazy loading, and image optimization, to improve page load times, enhance user experiences, and boost search engine rankings.

- Implemented server-side rendering (SSR) with React using libraries like Next.js, enhancing performance and improving search engine optimization (SEO) for the applications.
- Developed Microsoft Access solutions utilizing VBA and Macros to streamline data management processes and enhance system efficiency.
- Conducted unit testing for React components using testing frameworks such as Jest and React Testing Library, ensuring code quality and reliability.
- Developed responsive and visually engaging web interfaces by leveraging Bootstrap framework, accompanied by custom CSS, SCSS, and theming techniques.
- Leveraged the Styled Components library to seamlessly integrate dynamic styling and JavaScript logic within React components.
- Implemented and customized MS CRM Dynamics solutions to meet specific business needs.
- Developed workflows, plugins, and custom entities within MS CRM Dynamics environment.
- Analyzed test results from JMeter to identify bottlenecks and optimize application performance.

Technologies: Go, React, Redux, Styled Components, Bootstrap, Next.js, C#, ASP.NET, ADO.NET, WCF, Tomcat, Entity Framework, Node, AWS, Redis, LINQ, Apache Kafka, Ngnix, Web Logic, Kubernetes, PostgreSQL, Hadoop, Terraform, Github Actions, Distributed Systems, Docker, APIs, JSON REST APIs, Angular, React, Redux, Material UI, Azure Storage, JMeter, Microsoft Access

FULL STACK DEVELOPER at CORELOGIC

Los Angeles, CA | AUG 2010 – JUL 2016

- Replaced various back-end PHP systems with JAVA services, transitioned a large monolithic application into a microservice architecture.
- Clustered MongoDB with ~20GB live data into PostgreSQL using Kafka.
- DevOps using container orchestrations like Kubernetes with CI/CD operations in Jenkins, and Gitlab.
- Developed MLM (multi-level marketing) service with some critical operations to keep user transactions safe and secure using Django, WebSocket technologies & React Native as client side.
- Implemented a nearby location search engine with Elasticsearch, Postgres & PostGIS.
- Developed REST APIs using the Python Django rest framework & MongoDB.
- Built Real-time Communication between Python web server and Next.js frontend by configuring uWSGI to handle lots of connections
- Developed projects using Scrapy to crawl profiles from social platforms.
- Solved memory leak in the previous system which caused the web server to restart 2000 times a day in PaSS by moving from old SASS for styles into styled-components with caching pages to minimize resource use & decrease page load times.
- Used React Native to develop multimedia EBook reader applications.
- Improved the front-end development process, developed coding guidelines, and established the use of code quality tools (linting, testing).
- Used Client API generators with Node.js, and Redux in the application to retrieve data from DatoCMS for Headless CMS and to perform RESTful APIs and GraphQL.
- Developed the user interactive web pages by using web technologies like React.js, and SCSS as per required standards.

- Translated business requirements, mockups, and other product manager input into achievable milestones and code.
- Designed, built and did unit testing software in a collaborative environment.

Technologies: Amazon Web Services (AWS), React Native, Next.js, MongoDB, PostgreSQL, ASP.NET, Django, Java, PHP, JSP, J2EE, JBOSS, Jenkins, Gitlab, Scraping, SASS, Docker, React, Redux, GraphQL, PostCSS, Webpack, Jest, Docker, Node.js, CMS, Zeplin, Agile, Kanban