# Alec Schrader

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## Summary

Experienced Software Engineer with 8 years of experience designing, implementing, deploying, and maintaining innovative full-stack web applications. Adept at utilizing modern web and cloud technologies to create secure and robust solutions to complex problems.

## Work Experience

### USA Football, Apr 2024 - Present

#### Backend Software Engineer - Remote

* Utilized software testing tools such as Artillery and NUnit to identify and remedy performance bottlenecks in C# .NET Core APIs, resulting in a 20% increase in throughput and a 30% decrease in latency.
* Implemented account verification and fraud prevention measures leading to a nearly 50% reduction in fake accounts and fraudulent payments on the membership platform, increasing consumer confidence and company reputation.
* Provided application support on a rotating schedule utilizing tools such as JIRA, Elasicsearch, and Granfana to provide visibility and maintainability, ensuring software quality and excellent user experience.

### INHERET, Inc., Sep 2020 - Apr 2024

#### Full Stack Software Engineer - Remote

* Developed a research-based genetic risk assessment application using React.js, C# .NET Core APIs, and a SQL database to enable precise risk assessment and informed decision-making in over 6,000 patients.
* Collaborated with external clinic and laboratory IT departments to integrate report and order processing, creating a seamless user experience for healthcare providers and patients.
* Migrated company cloud infrastructure to Amazon Web Services (EC2, ECS, S3, RDS, Cloudwatch) using Terraform, increasing maintainability and decreasing cost by 40%.
* Implemented robust security controls in AWS to ensure compliance with HIPPA and SOC standards, safeguarding against cyber attacks and data loss.
* Constructed and maintained CI/CD pipelines using GitHub Actions to automatically perform tests and deploy applications to multiple environments, reducing deployment efforts by 80%.
* Implemented automated unit and integration testing using NUnit and Playwright, reducing QA and debugging efforts by 30%.

### Paquette Software, Mar 2016 - Sep 2020

#### Full Stack Software Engineer - Remote

* Contributed to the creation and implementation of over seven custom applications across healthcare, insurance, and eCommerce sectors utilizing numerous technologies such as Visual Basic, C#, .NET Framework, .NET Core, SQL, Javascript, jQuery, Bootstrap, and AWS, significantly enhancing the company’s market presence and client satisfaction.
* Collaborated closely with diverse stakeholders to comprehensively define project scope and requirements, ensuring alignment with organizational objectives and end-user needs.
* Contributed to the maintenance and enhancement of existing software applications, implementing updates, bug fixes, and enhancements to meet evolving client needs and industry standards.

## Certifications

AWS Certified Cloud Practitioner, 2023

## Education

*AA, English*, Kalamazoo Valley Community College, Aug 2023 - Kalamazoo, MI 3.9/4.0 GPA

**Relevant Coursework:** Technical Writing

## Skills

**Languages:** C#, JavaScript, Python, HTML, CSS, Visual Basic (VB)

**Frameworks:** React.js, .NET Core, .NET Framework, jQuery, Playwright, NUnit, Jest

**Tools/Platforms:** Amazon Web Services (AWS), Git, Docker, Terraform, GitHub, Jira, Visual Studio

**Other:** CI/CD, Agile