Robert C. Witzlib

Email: rob.witzlib@gmail.com | **Phone:** 262-527-1164 | https://www.linkedin.com/in/robert-witzlib/ | https://github.com/rwitzlib

Objective

Challenge–seeking developer with 5 years of experience writing and testing software. Passionate about solving hard problems and delivering high quality software. Always open to learning new technologies or trying a new approach to build something. Excellent communicator with experience leading teams in designing and building applications.

Education

University of Wisconsin - Madison | Sep. 2016 - Aug. 2020
- Bachelor of Science in Computer Science
- Coursework: Operating Systems, Algorithms, Data Structures, Databases, Cybersecurity

Experience

Optum | October 2022 - Present

Mjolnir: Designed and built an internal tool used for running jobs such as automated test suites or database migrations.
- Built from AWS StepFunction, Lambda, Batch, SSM, S3, CodeDeploy
- Fully integrated with CI/CD pipelines via CodeDeploy or Github Action

CI/CD Pipelines: Created CI/CD pipelines that allow developers on the team to efficiently build and test code, provision IaC through terraform, build docker images, and deploy code from Development through Production environments

Clinical Data Service: Service that serves as a proxy between a client and a FHIR server for the retrieval of PHI.
- Employed clean architecture standards to create an elegant, and fast API
- Incorporated latest security standards to ensure HIPAA compliance while handling patient data

Event Service: Distributed system used to notify customers of events occurring within a FHIR system
- Built system to run asynchronous tests against the system, ensuring all microservices were functioning properly

Change Healthcare | May 2020 - October 2022 | Acquired by Optum in October 2022

Risk Assessment: API for estimating breast cancer risk over time based on genetic and familial information
- Implemented family history feature and worked with Epic to integrate with their EMR

Loki: Designed and led a team in building a mock FHIR server that would go on to be used by several applications to validate functionality in non-production environments.
- Led to quicker onboarding for our customers, letting them interact with our system sooner

Automated Test Suite: Contributed to and maintained suite of 3000+ automated tests which ensured system functionality across several applications

Projects

Stock Market Analyzer: Tool used to view live or past stock market data and scan the market for specific conditions. Includes a system to quickly test investment strategies in a simulated environment.
- Backend built with AWS Lambda, S3, DynamoDB, and Docker containers running on a VPS
- Frontend built with ReactJS and OpenAuthJS (OAuth2) to handle authentication
- Simulation system built with AWS Lambda to be highly parallelized, resulting in a 99% reduction in compute time

Lightweight Charts (Open Source Contribution): Improved upon an open source library to render multiple panes on a stock market chart, allowing for multiple indicators to be displayed

Skills

- Languages: C# / .NET, Terraform, SQL, Javascript, HTML, CSS
- Technologies: AWS, Docker, Github Actions, GitLab, Blazor, React, Linux
- National-level Collegiate Powerlifter