

Joseph S. Zeffiro

Full-Stack Software Engineer

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Profile Summary

- Accomplished Software Engineer with **5+ years** of experience in full-stack web development and software engineering, delivering large-scale software systems and web applications within fast-paced environments.
- Extensive technical skillset, with a solid command of programming languages (**C++, Java, Python, Rust**), frameworks (**React, Node.js/Express.js**, ColdFusion), databases (**SQL & NoSQL**), and modern **cloud services** (AWS, Docker).
- **System Design** expert with a proven track record of designing scalable, efficient, and robust solutions involving microservices and layered architectures.
- Active role during each phase of the **Software Development Life Cycle**, designing innovative features, maintaining existing functionalities, and delivering clean and maintainable code to ensure technical excellence.
- Engaged collaborator, skilled at influencing and **aligning multiple teams** with conflicting priorities to drive progress under aggressive time constraints. **Secret Security Clearance** holder, able to handle sensitive information.
- Recreational programming includes, but is not limited to, contributing to open-source **Java** projects, building **Next.js** or **React** web pages, and developing **Kotlin / Java** or **React Native**-based Android apps

Technical Skills

Programming Languages: C#, C++, C, Java 17 11 and 8, Rust, Python, Golang, JavaScript, TypeScript, PHP, CFML, HTML/CSS

Frameworks & Libraries: AngularJS, jQuery, Node.js/Express.js, React, Node, ColdFusion, Next JS, JUnit / Mockito, .NET, Java Spring, Java Swing, OpenAPI, RabbitMQ

Databases: MySQL, SQL Server/MSSQL, Firebase, MongoDB, DynamoDB, Mlab, MongoCloud

Dev Tools: Git, Android Studio, VS Code, SSMS, MongoDB Compass, Maven, Gradle, Jira, AWS, Docker, Containerization, Jenkins, Bitbucket, Github, Gitlab, Atlassian, TeamCity, SonarQube

Productivity Tools: Microsoft Office Suite (Word, Excel, Outlook, PowerPoint)

Domain Expertise: Microservices, SaaS, multithreading, Data Structures, Algorithms, Debugging, RESTful APIs, gRPC, tRPC, Protocol Buffers, WebSockets, Agile workflow, Scrum

Professional Experience

Polaris Alpha | Parsons Software Engineer

Eatontown, NJ May 2019 - Present

- Contributed to the technical effort by developing key functionalities for a large-scale software system, encompassing the conceptualization, design, and enhancement of innovative features as well as the maintenance of existing functionalities, delivering clean and scalable code in **C++, Java**, and **C#**.
- Developed a **Kotlin**-based **ATAK** Plugin adhering to U.S. Army specifications, integrating advanced geospatial capabilities to enhance battlefield situational awareness
- Solely created a **TAK** interacting **Webtak** plugin using **React** as the primary builder. Made changes to and interacted with **Java** based **TAKX** plugins to serve a similar purpose.
- Thoughtfully identified **functional & system requirements**, researched adequate technologies and selected architectural & design patterns allowing for maximum scalability and performance.
- Designed and optimized system architecture for the DXTRS application, a 20+ year legacy system comprising **Java**, **C++**, and **C#**, now employing the **strangler pattern** to transition individual modules to **Microservices**. Focused on enhancing performance, scalability, and maintainability.
- Transformed legacy applications into **Docker** containerized **gRPC**-based microservices, with an end goal of distributing the strangled modules to **Kubernetes**.
- Streamlined data parsing and visualization primarily with **Python**, complemented by **React** and **Next.js** with **TypeScript** and **JavaScript**, achieving a large data processing throughput.
- Assisted in stimulating and testing GOV Adjacent applications such as Tak, ExCIS, AFATDS, CPCE, CPOF, and DDS by using **JUnit** as a harness for gRPC services, achieving a test coverage of over **78%** for mission-critical systems.
- Led **design reviews** and system optimization initiatives, supported team members through knowledge sharing and mentorship, and promoted software engineering best practices to foster technical excellence.

Rde Systems Support Group Full-Stack Web Developer

Little Falls, NJ Feb. 2019 - May 2019

- Contributed to the technical effort by developing a tutorial full stack web application, focusing on enhancing both user interfaces and server-side logic for the **ECommerce** system featuring item selection, carts, ordering.
- Supported the seamless development of a **web application** using **Bootstrap**, **jQuery**, and **ColdFusion** frameworks, featuring a clean, responsive, and easy-to-use interface, with a peak response time of under **342 ms**.

Education

New Jersey Institute of Technology  B.Sc. in Computer Science

Newark, NJ 2017-2019

Brookdale Community College 

Middletown, NJ 2015-2017