Donald Richard Warner III

Senior Java Software Engineer

donald890530@gmail.com | (202) 738 - 4845 | Walla Walla, WA |

https://linkedin.com/in/donald-warner-830383308

PROFILE

I am an accomplished Java Software Engineer with 12 years who has expertise in both the frontend and backend development of Java-based applications. I am proficient in Java frameworks like **Struts**, **Spring, Spring Boot** and **WebFlux** and JavaScript frameworks like **React.js** and **Angular**. I have experience in Software Development Life Cycle using development methodologies and Agile principles. Additionally, I am skilled in backend programming language such as **Python**, **Kotlin**, **Golang**, **C#** and have knowledge of various database technologies like **SQL**, **NoSQL** and **Oracle**. Apart from technical skills, I have strong problem-solving abilities, excellent communication skills, and the capability to collaborate effectively with stakeholders.

SKILLS

- **Languages**: Java, Kotlin, JavaScript/TypeScript, Golang, Python, C/C++/C#
- **Web Development**: J2EE, JSP, Spring, Spring Boot, Spring MVC, Hibernate, WebFlux, Angular, Struts, ASP.NET, .NET Core, React.js, Next.js
- **Database**: MySQL, PostgreSQL, Oracle, MongoDB, Redis
- **Libraries:** React.js, Apache Kafka, Log4j, Spring Data, Apache Spark, Gradle, Maven
- **Cloud**: AWS S3/SNS/SQS/ECS/EC2/Lambda/DyanmoDB, Jenkins, Docker, Kubernetes, GCP/GKE/BigQuery/Vision API, Azure Blob Storage/Azure SQL/Azure App Service
- **Other**: JUnit, Mockito, RabbitMQ, OpenCV

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Innovative Solutions Group, Ashburn, VA, Jan 2023 – Jul 2024

- Spearheaded the development of a robust backend system for a **doctor support decision platform** utilizing **Java**, **Spring Boot**, and **Microservices** architecture, which successfully managed over 10,000 concurrent users without performance degradation.
- Led a **cross-functional** team of software engineers in the design and implementation of innovative solutions, fostering collaboration and ensuring high-quality deliverables while mentoring junior developers to enhance their skills and productivity.
- Leveraged **Python Flask** for data analysis and machine learning tasks with **GCP**, enabling insights and predictions on healthcare trends and outcomes.
- Developed and maintained scalable microservices using **Golang**, implementing **RESTful APIs** and optimizing performance to enhance system efficiency and support high-volume transactions.
- Developed a robust web application using **Next.js** for the front-end and **Java** for the back-end, integrating **RESTful APIs** and optimizing performance, resulting in a 30% improvement in load times and enhanced user experience.
- Optimized **PostgreSQL** database performance by implementing **indexed views**, introducing **partitioning strategies**,

refining query execution plans for **critical transactions**, and applying **data sharing**, all of which significantly improved data retrieval speed by 30% and enhanced the ability of platform to scale seamlessly under high demand.

- Utilized **Azure App Services** and **Azure SQL** Database to host and manage the application, ensuring scalability and high availability.
- Developed the admin panel using **ASP.NET Core MVC**, allowing administrators to view real-time patient and doctor statistics.
- Applied **Azure Active Directory** for authentication and role-based access control (RBAC) to ensure secure access to sensitive healthcare data.
- Designed and implemented a scalable and fault-tolerant real-time data streaming solution using **Apache Kafka**.
- Skilled in implementing and managing **HashiCorp Vault** for secure secret management across multiple environments.
- Reduced deployment times by 70% and enabled **bi-weekly** release cycles with zero downtime by configuring and optimizing **Jenkins** pipelines for continuous integration and deployment.
- Enhanced team productivity and project management by utilizing **Microsoft Teams** and **Jira**, ensuring efficient communication and timely delivery of project milestones across distributed teams.

Java Backend Engineer, Thoughtbot, Boston, MA, Jan 2020 - Dec 2022

- Spearheaded the backend development of a sophisticated **VoIP Call Management System**, significantly enhancing communication efficiency, call quality, and user experience for over 5000 active users across various industries.
- Developed **microservices** using **Spring Boot** to manage real-time voice communications and user data, integrating **WebFlux** to efficiently handle thousands of concurrent calls without degrading performance.
- Implemented robust authentication and authorization mechanisms with **Spring Security** for enhanced data security
- Advanced **PostgreSQL** and **Redis** databases' performance through optimization for high availability and low latency, implementing **replication** and **failover** mechanisms that reduced downtime by 40% and boosted data retrieval speeds by up to 70%.
- Proficient in deploying and administering **HashiCorp Vault** to provide centralized secret management and encryption as a service.
- Orchestrated a versatile deployment architecture utilizing **AWS Lambda** for serverless operations and **AWS EC2** for traditional API hosting, which optimized resource allocation and reduced operational costs.
- Managed **AWS S3** for scalable storage of multimedia content and documents, coupled with **AWS SNS** to enhance platform-wide notification services, thereby increasing user engagement.
- Developed and maintained **Python** scripts for automation tasks, integrating **Gradle** and **AWS SDK** to enhance build and deployment processes.
- Led the development of a scalable web application with **Next.js** for the client-side and **Java** for server-side functionality, implementing secure authentication and real-time data processing, which increased user engagement by 25% and reduced server response times by 40%.
- Designed and implemented robust backend services in **Go**, leveraging concurrency features to handle asynchronous tasks and improve application responsiveness for real-time data processing.
- Experienced in setting up and managing **Vault clusters**, configuring secure storage backends, and implementing access control policies to ensure compliance with security best practices.
- Engaged directly with clients to capture and address their business needs, employing **Agile** methodologies to iteratively enhance application functionalities and ensure alignment with client objectives.

Backend Engineer, TheoremOne, Seattle, WA, Jan 2015 - Oct 2019

- Led the development and implementation of a **large-scale e-library** management system using **Java**, **Spring Boot**, **Struts**, and **React.js**, creating a robust platform capable of handling extensive user interactions and transactions.

- Implemented **Redis** for in-memory caching to store frequently queried data, and setting up content delivery networks (**CDNs**) for static assets, significantly boosting system responsiveness and user transaction speeds by 40%.
- Developed comprehensive API endpoints with detailed **Swagger** documentation and **sample code**, streamlining the frontend development process.
- Transitioned the system architecture from a traditional **MVC** pattern to a more efficient **Repository pattern**, improving database abstraction, data access, testability, flexibility, and maintainability.
- Overhauled **Jenkins** and **Google Cloud Build CI/CD** pipelines, reducing deployment times by 50% and enabling consistent **bi-weekly** releases.
- Integrated key **Google** services, utilizing **Google Cloud Storage** for scalable data storage solutions and **Google Cloud Pub/Sub** for effective notification delivery, which enhanced user engagement.
- Collaborated closely with **OCR** engine developers to implement a **Python** module that processes OCR-recognized book summaries, efficiently storing this data in the **Oracle** database and reducing manual data entry workload by 40%.
- Architected and deployed cloud-native applications using **Golang**, focusing on microservices architecture to enhance scalability and facilitate seamless integration with third-party APIs.
- Built high-performance applications using **C#** and **.NET**, leveraging **Azure Event Hubs** for real-time data ingestion and **Service Bus** for robust messaging and workflow management, resulting in a 30% improvement in processing efficiency.
- Demonstrated Payment Domain expertise by integrating secure and reliable payment systems, utilizing **Stripe** and **PayPal APIs** to ensure smooth and seamless transactions.
- Leveraged the **ASP.NET** framework for web development, utilizing **Entity Framework** for efficient database access, **SignalR** for real-time user notifications, and **RabbitMQ** for scalable message-based communication, enhancing application responsiveness and user engagement by 25%.
- Utilized Azure services including **Azure App Service** for scalable web hosting, **Azure Blob Storage** for efficient data storage solutions, and **Azure SQL Database** for reliable database management, achieving a 40% reduction in application downtime.
- Effectively managed containerized applications using **Docker** and **Azure Kubernetes Service (AKS)**, enabling seamless deployment and scalability. Implemented automated scaling policies and health checks, maintaining system stability and achieving a 50% reduction in deployment time.

Junior Web Developer, Keyrus, Seattle, WA, Jan 2011 - Oct 2014

- Utilized the **Spring** ecosystem, including **Spring Boot**, **Spring MVC**, and **Spring Data**, to build robust software solutions.
- On the frontend, leveraged **React** to create user-friendly web applications, utilizing **React's** features to develop responsive and interactive interfaces.
- Successfully migrated the backend from **Core Java** to **Spring Boot**, leading to a 40% reduction in API call latency and a 50% decrease in DevOps workload by optimizing microservices architecture.
- Designed and implemented efficient **RESTful APIs** using **Golang's** built-in HTTP package to facilitate seamless communication between services.
- Used **JavaRx** (**ReactiveX**) to build responsive applications and **JMeter** for performance testing, striving to deliver efficient, reliable software and improve user experience.
- Developed a robust **Java** web application with a scalable **MVC** architecture, facilitating efficient resource management and seamless project progress tracking for enhanced productivity.
- Developed and maintained a dynamic web application using the **J2EE API**, incorporating **Servlet**, **JSP**, and **JDBC** technologies for seamless database connectivity.
- Utilized **Java SE** extensively for core functionalities, including collections, file handling, networking, and multithreading.
- Employed automated testing tools to ensure software reliability and utilized **GitLab** for version control, facilitating effective code management and collaboration.

EDUCATION

Bachelor of Science in Computer Science
University of Texas at San Antonio, Mar 2007 – Jun 2011