

Adrian Budean

Summary

Accomplished Java Full Stack Developer with over 10 years of experience in designing, developing, and maintaining complex, scalable, and high-performance applications. Proficient in both backend and frontend technologies, including Java, Spring Boot, Hibernate, React and Angular. Demonstrated expertise in microservices architecture, RESTful APIs, and cloud platforms such as AWS, Azure and GCP. Skilled in utilizing modern development tools and methodologies like Agile, DevOps, and CI/CD to deliver robust software solutions. Adept at collaborating with cross-functional teams to drive project success and improve user experience. Strong problem-solving abilities, attention to detail, and a commitment to continuous learning and professional growth.

Skills

Programming Languages: Java, Golang, Python, C#, Kotlin, Scala, JavaScript/TypeScript, .Net

Web Development: J2EE, JSP, Spring Boot, Hibernate, .NET, Angular, React, Vue.js, GraphQL

Databases: PostgreSQL, Oracle, DB2, DynamoDB, MongoDB

Cloud Technologies: AWS, Azure, GCP

DevOps: Docker, Kubernetes, Terraform, Jenkins

Messaging Systems: JMS, Apache Kafka, RabbitMQ

Testing: Selenium, JUnit, Karma, Log4j

Other Tools: Git, Maven, Jira, GitLab, Scrum, Kanban

Experience

Senior Full Stack Developer

Membersy | Austin, TX

Feb 2021 – Jul 2024

- Designed and developed a healthcare analytics platform using **Java**, which resulted in a 42% improvement in data processing time, enabling healthcare professionals and administrators to make faster and more informed decisions.
- Implemented **Spring Boot** framework, reducing the development time by 45% and enhancing the scalability and maintainability of the dental care platform.
- Utilized **Spring Data JPA** in conjunction with **Hibernate** for efficient Object-Relational Mapping (ORM) capabilities, enabling seamless interaction with a **PostgreSQL** database to manage data for services such as patient management and billing.
- Implemented comprehensive **JVM** monitoring and diagnostics strategies to ensure optimal application health and performance.

- Architected and developed a robust, scalable, and responsive web-based inventory management system leveraging advanced **JSP** and **Spring MVC** frameworks. Implemented a service-oriented architecture to ensure modularization and maintainability.
- Designed and developed high-performance backend services using **Golang** in a healthcare analytics platform, enabling real-time data processing and analysis for healthcare professionals.
- Developed a responsive, intuitive and visually appealing user interface using the **React** with **TypeScript**, adhering to **UX/UI** design principles.
- Designed and implemented a real-time collaborative platform using **GraphQL** subscriptions, providing users with seamless and instant updates on shared data.
- Worked on new features of **Angular** specific to projects, including syntax enhancements, ngtemplates, form validators, and routers.
- Implemented **Angular** component-based architecture for UI components, streamlining development time and ensuring code maintainability
- Leveraged **Python** for data analysis and machine learning tasks with **GCP**, enabling insights and predictions on healthcare trends and outcomes.
- Designed and implemented scalable and fault-tolerant architectures using **Terraform** modules and best practices, resulting in increased system reliability with zero downtime during peak usage periods.
- Implemented **PostgreSQL**'s streaming replication and **Oracle**'s Data Guard to ensure high availability and disaster recovery.
- Designed and implemented a patient appointment scheduling microservice using **Kafka** topics for asynchronous event-driven communication, improving system responsiveness and scalability.
- Developed a real-time patient monitoring system utilizing **RabbitMQ** queues for inter-service communication, enabling timely alerts for critical health indicators.
- Managed the platform on **AWS**, utilizing services such as **Amazon EC2**, **Amazon RDS**, **Amazon S3** and **Lambda functions** to achieve seamless scalability, enhanced reliability, and secure data storage, resulting in a 99.9% uptime and improved data security.
- Used **Kubernetes** to deploy, scale, and manage the platform, ensuring high availability, fault tolerance, and efficient container orchestration, resulting in a 30% reduction in deployment time and improved resource utilization.
- Implemented **DevOps** methodologies and tools, including **Jenkins** and **GitLab**, to automate and optimize processes, including the implementation of **CI/CD** pipelines.
- Deployed and maintained **Linux**-based infrastructure, managing a fleet of 100+ servers.
- Practiced **Agile** methodologies, including **Jira** for task management, resulting in efficient team collaboration.

Full Stack Developer

Beyond Key | Chicago, IL

Apr 2017 – Dec 2020

- Maintained and migrated enterprise-level **Java**-based web applications using **Spring Boot** framework. Implemented robust authentication and authorization mechanisms with **Spring Security** for enhanced data security.
- Developed a scalable **RESTful API** using **Spring MVC**, enabling users to seamlessly access and retrieve project details, resulting in improved data accessibility and streamlined workflows.
- Used **Kotlin** for server-side development, creating a robust and scalable web applications with improved performance and maintainability.
- Created custom controls and incorporated responsive design principles using **JavaFX**'s rich set of UI controls and **CSS** styling.
- Utilized **C++** for calculation engine **microservices** and **Golang** for concurrency **microservices**, establishing communication between services through **gRPC**.
- Integrated third-party APIs and services, such as Twilio for SMS notifications and WebRTC for real-time audio/video communication, into **Node.js** applications to enhance functionality and user experience.
- Led the development of a real-time analytics dashboard using **Angular** and **Kafka**, providing valuable insights into user behavior and enabling data-driven decision-making, resulting in a 20% increase in user engagement and revenue.
- Developed a modern software suite in **.NET** with **Azure** Serverless Architecture with an **React** framework, resulting in a 20% reduction in response times and a 28% increase in system reliability.
- Leveraged knowledge of **GCP**'s data analytics and machine learning services, such as **BigQuery**, Cloud Dataflow, Cloud ML Engine, and AI Platform to process and analyze large datasets.
- Managed **Oracle** databases for a large-scale enterprise application, ensuring data integrity, performance, and high availability.
- Designed and implemented highly scalable **DynamoDB** tables, indexes, and streams to seamlessly support diverse application requirements. Successfully handling over 10 million requests per day, ensuring exceptional performance and reliability.
- Containerized and orchestrated **microservices** using **Docker**, **Kubernetes** and **Kafka**, ensuring efficient deployment, scalability, and fault tolerance for the **microservices** ecosystem.
- Orchestrated the integration of applications with **AWS Directory Service**, ensuring single sign-on and centralized user management.
- Enhanced security by implementing **AWS Identity and Access Management (IAM)** to control and manage access to AWS services, ensuring secure and efficient access to critical network resources and data.
- Automated the development process using **Azure DevOps** and other **CI/CD** tools, enabling continuous integration and deployment of the application.
- Collaborated effectively using **GitLab** and **Jenkins**, fostering seamless code development, efficient code review processes, and continuous integration to ensure high-quality software deliverables.
- Applied **Test-Driven Development (TDD)** principles to deliver reliable and maintainable code, reducing bug rates and improving application stability.

- Ensured quality and reliability of web applications by implementing end-to-end testing using **Selenium**, **JUnit** and **Log4j**.

Full Stack Developer

Belatrix | Floral City, FL

June 2014 – Feb 2017

- Developed a robust **Java** web application with a scalable MVC architecture, facilitating efficient resource management and seamless project progress tracking for enhanced productivity.
- Spearheaded the development and integration of critical features for an e-commerce platform, leveraging **Spring Boot** and **Vue.js**. Implemented product management functionalities and secure payment processing, resulting in an elevated online shopping experience for customers.
- Developed a **Java EE**-based CRM module that effectively managed customer data, streamlined sales processes, and enhanced customer service. The implementation resulted in 35% improvements in customer satisfaction and sales performance.
- Developed and maintained a dynamic web application using the **J2EE** API, incorporating **Servlet**, **JSP**, and **JDBC** technologies for seamless database connectivity. This resulted in a highly interactive and reliable web application.
- Utilized **Java SE** extensively for core functionalities, including collections, file handling, networking, and multithreading.
- Created a modern and user-friendly graphical user interface for a desktop application using **JavaFX**. Incorporated event handling and multimedia capabilities.
- Inventory management system using **Object-Oriented** and **Service-Oriented Architecture**. The system tracks product availability, restocks, and order processing in real-time. It ensures that customers always see accurate stock levels and that products are shipped promptly.
- Designed, developed and implemented Single Page Application (SPA) in **Angular** by consuming JSON from a **Spring MVC**, using **Spring Security** to secure the application.
- Designed and developed high-performance and scalable backend systems using the power of **Kotlin** and **Scala**.
- Developed a comprehensive Tableau dashboard from scratch using **Python** to extract, clean, and transform data, resulting in a 20% decrease in decision-making time for senior management.
- Designed, developed, and maintained **DB2** databases for a large-scale enterprise application, ensuring optimal performance and data integrity.
- Developed a robust personal finance management application capable of handling millions of transactions. Implemented **MongoDB** as the primary database solution, capitalizing on its **NoSQL** capabilities for flexible data storage and retrieval.
- Developed a robust inter-process communication framework using **JMS** to facilitate seamless data exchange and reduce latency, improving system performance by 20%.
- Implemented robust continuous integration and deployment pipelines using **Jenkins** and **Terraform**, ensuring efficient and reliable infrastructure deployments.
- Developed scalable systems to manage high user loads and transaction volumes for e-commerce platforms, utilizing containerization technologies (**Docker**, **Kubernetes**) and cloud-native solutions.

- Utilized industry-standard tools such as **JUnit** and **Maven** for comprehensive testing, **Log4j** for effective error logging, message tracking, and performance logs, and **Git** for efficient version control. These practices significantly enhanced code quality, traceability, and collaboration.
- Played a pivotal role in configuring, deploying, and supporting **AWS** infrastructure, expertly launching multiple **AWS EC2** instances for seamless application deployment and scalability.
- Applied Agile methodologies, including **Scrum** and **Kanban**, to drive effective project management, fostering collaboration, adaptability, and timely deliverables.
- Performed backend test cases using **JUnit** and Angular test cases using **Karma**.

Education

Bachelor of Computer Science

University of North Texas | Denton, TX | Aug 2010 – May 2014