CHRISTIAN RICHARDSON

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PROFESSIONAL SUMMARY

- Full Stack Java Developer with 8+ years of experience building enterprise-grade, scalable, and cloud-native applications for financial, healthcare, and e-commerce clients using Java 17, Spring Boot, Hibernate, and ReactJS.
- Proven track record designing and implementing microservices architectures with Spring Cloud, Docker, and Kubernetes, ensuring fault tolerance and efficient service orchestration.
- Expertise in developing RESTful and GraphQL APIs, connecting backend microservices to responsive frontends using ReactJS, Bootstrap, and TypeScript for improved usability and performance.
- Strong proficiency in Spring Framework (Core, MVC, Security, Data, Batch) and Hibernate ORM, delivering modular, maintainable, and high-performance backend systems.
- Experienced in cloud deployments using AWS and Azure, integrating CI/CD pipelines through Jenkins, GitLab CI, and GitHub Actions for automated builds and deployments.
- Skilled in database management and optimization with PostgreSQL, MySQL, MongoDB, and Redis, ensuring data integrity and high availability across distributed systems.
- Adept at implementing security protocols (OAuth2, JWT, Spring Security) and developing unit/integration tests with JUnit, Mockito, and Postman to maintain quality and reliability.
- Collaborative team contributor with experience in Agile, Scrum, and TDD, mentoring peers, conducting code reviews, and delivering clean, reusable, and well-documented solutions.

EXPERIENCE

Ellipsis Health | California, USA
Senior AI | Software Engineer Mar 2024 – Present

- Architected and developed AI-enhanced microservices using Java (11/17), Spring Boot, and Spring Cloud, enabling real-time data processing and analytics for large-scale healthcare platforms.
- Built and secured RESTful and GraphQL APIs with Spring Security and JWT, integrating predictive data services and dynamic authorization models to support HIPAA-compliant clinical workflows.
- Led the design and development of responsive, micro-frontend UI components using ReactJS, TypeScript, Redux, and Tailwind CSS, visualizing AI-driven insights and health metrics in real time.
- Implemented asynchronous data flows using Redis and messaging patterns, optimizing backend performance for machine-learning-assisted features across distributed systems.
- Containerized backend and frontend components using Docker and deployed on Kubernetes clusters (AWS EKS), ensuring scalable, fault-tolerant environments for model inference and business services.
- Orchestrated CI/CD pipelines with Jenkins, GitHub Actions, and GitLab CI/CD to automate deployments of AI-integrated services across development, staging, and production environments.
- Developed robust testing frameworks using JUnit, Mockito, and Postman, incorporating test-driven development (TDD) practices to validate AI logic and ensure system reliability.
- Modernized legacy systems by migrating core modules to Spring Boot 3 and React 18, enabling streamlined integration of ML features and enhancing performance and maintainability.
- Collaborated closely with DevOps and cloud engineering teams to provision infrastructure using Terraform and AWS (EC2, Lambda, S3, RDS), optimizing cost and scalability for AI pipelines.
- Actively participated in Agile ceremonies, translating product objectives into intelligent software solutions, mentoring developers on scalable microservice and AI design patterns.

Environment: Java 17, Spring Boot 3, Spring Cloud, Hibernate, ReactJS 18, TypeScript, Bootstrap, Kafka, Redis, Docker, Kubernetes, AWS (EC2, S3, RDS), PostgreSQL, JUnit, Mockito, Jenkins, GitHub Actions, Agile Scrum

Bittensor | Toronto, Canada
Senior AI | Software Engineer Oct 2021 – Feb 2024

- Architected and developed scalable, distributed microservices using Java 17 and Spring Boot 3 for digital wallet management, ledger synchronization, and transaction lifecycle tracking in high-throughput environments.
- Designed and implemented secure, performant RESTful and GraphQL APIs, integrating ReactJS 18 frontends with backend services to enable real-time data synchronization and event-driven workflows.
- Led front-end development of responsive, modular dashboards utilizing ReactJS, Redux, TypeScript, and Bootstrap, enhancing visualization of transactional data and user interaction.
- Optimized data persistence layers through advanced Hibernate ORM tuning and PostgreSQL query optimization, improving database performance and system responsiveness.

- Engineered asynchronous event-driven architectures leveraging Apache Kafka and Redis for reliable messaging, stream processing, and real-time analytics in distributed systems.
- Implemented comprehensive security frameworks with Spring Security and OAuth2, enforcing role-based access control (RBAC), authentication, and compliance with industry standards.
- Deployed and managed microservices on AWS Elastic Beanstalk and Lambda, automating infrastructure provisioning using CloudFormation for scalable, resilient cloud-native solutions.
- Containerized applications using Docker and orchestrated deployments via Kubernetes, leveraging Prometheus and Grafana for robust monitoring, alerting, and system observability.
- Established and optimized CI/CD pipelines with Jenkins and GitLab CI/CD, automating build, test, and deployment workflows to accelerate continuous integration and delivery.
- Active contributor to Agile Scrum teams, facilitating sprint planning, retrospectives, code reviews, and mentoring to drive best practices in software development and maintainability.

Environment: Java 17, Spring Boot 3, Spring Cloud, Hibernate ORM, ReactJS 18, Redux, Bootstrap, Kafka, Redis, PostgreSQL, AWS (Lambda, Elastic Beanstalk, CloudFormation), Docker, Kubernetes, Prometheus, Grafana, JUnit, JMeter, Jenkins, GitLab CI/CD

Net Solutions | California, USA
Full Stack Java Developer   Jun 2016 – Sep 2021
- Developed web applications and enterprise solutions using Spring Boot, ReactJS, and NodeJS across finance and retail sectors.
- Built modular ReactJS and Redux components with REST API integration, ensuring responsiveness and cross-browser compatibility.
- Designed and deployed backend services using Spring Boot and JPA, implementing transactional logic and data persistence via Hibernate.
- Optimized MySQL and MongoDB queries, improving application performance and reliability under heavy workloads.
- Automated recurring business processes using Spring Batch and asynchronous job scheduling.
- Implemented JWT-based authentication and Spring Security for secured REST endpoints and session management.
- Containerized legacy applications with Docker and migrated deployments to Kubernetes clusters for elasticity.
- Configured Jenkins CI/CD pipelines, ensuring consistent, automated deployments across environments.
- Collaborated in cross-functional Agile teams to deliver features, perform reviews, and align with client requirements.
- Authored API documentation and reusable code libraries to improve maintainability and developer onboarding.

Environment: Java 8, Spring Boot, Spring Security, Spring Batch, Hibernate, ReactJS, Bootstrap, Redux, MySQL, MongoDB, Docker, Kubernetes, Jenkins, Git, REST APIs, OAuth2, JWT, Agile Scrum.

TECHNICAL SKILLS:

- **Programming Languages:** Java 8/11/17, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3, Python (basic)
- **Frameworks & Libraries:** Spring Boot, Spring MVC, Spring Security, Spring Cloud, Hibernate, ReactJS, Angular, Bootstrap, Node.js, Express.js, RESTful APIs, GraphQL
- **Web & Frontend Development:** ReactJS, Redux, TypeScript, JavaScript, HTML5, CSS3, Bootstrap, Tailwind CSS, Responsive UI Design, Micro-Frontend Architecture
- **Backend Development:** Java, Spring Boot, Spring Data JPA, Hibernate ORM, Microservices Architecture, RESTful API Design, GraphQL Integration
- **Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB, Redis
- **Cloud & DevOps Tools:** AWS (EC2, S3, RDS, Lambda), Azure, Docker, Kubernetes, Jenkins, Terraform, GitHub Actions, GitLab CI/CD, Nginx
- **Version Control:** Git, GitHub, GitLab, Bitbucket
- **Testing Tools:** JUnit, Mockito, Postman, Selenium, JMeter
- **Project Management & Methodologies:** Agile, Scrum, TDD, SDLC, CI/CD Pipelines
- **Security & Compliance:** OAuth2, JWT, Spring Security, Role-Based Access Control, Secure Coding Practices

EDUCATION:

- Bachelor's Degree in Computer Science – Brooklyn College, New York (2012 – 2016)