Joseph Sheen

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PROFILE

Enthusiastic and detail-oriented software engineer with a strong passion for designing, building, and maintaining robust software applications. Proven track record of solving complex problems, optimizing system performance, and enhancing user experiences. Skilled in full-stack development and Agile methodologies, with a focus on delivering high-quality, scalable, and innovative software solutions that drive real-world impact.

Areas of Expertise:

- RESTful Web APIs
- Microservices
- Automation
- System Design

- Test Driven Development (TDD)
- Unit Testing
- Problem Solving
- Communication

TECHNICAL SKILLS

Platforms: Windows 10/11/Server, Linux (Ubuntu, Mint, CentOS, Kali, Raspberry Pi OS), macOS, Android, FireOS.

Languages: Java, Kotlin, Python, C/C++, TypeScript/JavaScript, HTML, SQL, SCSS/CSS, MATLAB.

Frameworks: Spring/Spring Boot, Hibernate, JUnit, Mockito, JaVers, Ionic, Electron, Angular, RxJS, NgRX, Jasmine, FullCalendar, tippy.js, Cypress, Maestro.

Databases: Microsoft SQL Server, PostgreSQL, Oracle Database, CouchDB, SQLite, H2.

Tools: Git, Subversion, GitHub, Bitbucket, Maven, Gradle, Apache Tomcat, Swagger, Docker, AWS EC2, Azure Virtual Machine, Wireshark, MySQL workbench/CLI, psql/pgAdmin, Visual Studio, Visual Studio Code, IntelliJ, Eclipse, PyCharm, CLion, Android Studio, Zed, Jira, Confluence.

PROFESSIONAL EXPERIENCE

Ocean Blue Software   Bristol
Software Engineer   Mar 2025 - Present
- Designing and implementing code for a fully automated Kotlin based testing suite used to validate smart TV software and applications.

- Working closely with QA engineers to execute automated and manual tests, identify and troubleshoot defects, and support pre-certification efforts to ensure high quality, production ready software.

Polaris Software (Formerly JML Software Solutions Ltd.)   Milton Keynes
Software Engineer   Nov 2023 - Feb 2025
- Engineered a robust ETL solution with Spring Batch to seamlessly migrate customer data from legacy formats to the Chronicle 4 system's new schema, enhancing data integrity and optimising processing efficiency.
- Revamped training event workflows to support initial and refresher event results by enhancing backend functionality and upgraded the user interface for improved usability and performance.
- Built instructor and student review pages summarising multi-step forms with easy navigation for edits.
- Designed and developed interactive training event and session calendars, enabling intuitive creation, visualisation, and editing of events to enhance the user experience.
- Implemented comprehensive error handling across server and UI layers, resulting in greater system stability, reliability, and maintainability.
- Researched and prototyped Business Intelligence (BI) tools for potential Chronicle 4 integration, evaluating options against technical business requirements to inform future implementation decisions.

Graduate Software Engineer   Nov 2021 - Oct 2023
- Implemented automated email notifications to inform students of required training events, improving attendance and reducing manual follow-up.
- Built a Training Event Owner modal and a custom, filterable instructor list to streamline event management and enhance user workflow.
- Developed a comprehensive auditing system for the new Chronicle 4 platform to track all actions, with a dedicated user interface for viewing audit logs and ensuring compliance and transparency.

QUALIFICATIONS

- Advanced Computer Science MSc - Distinction, Newcastle University.
- Computer Science BSc (Hons) - First Class, Newcastle University.

ADDITIONAL INFORMATION

- Willing to relocate to major cities across Europe, North America, and Asia.
- Gold Duke of Edinburgh award holder.
- Queen's Scout Award - Scouting's highest non-leader award.

Reference available upon request.