

Joseph Sheen

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PROFILE

Enthusiastic software engineer with an interest in designing, implementing, and maintaining Java applications. With a proven ability to solve complex problems, optimize performance and improve user experiences. I am passionate about utilizing my technical skills in Java, the Spring Framework, Angular, and Agile development to create innovative software solutions.

Areas of Expertise:

- Problem Solving
- Communication
- Test Driven Development (TDD)
- RESTful Web API
- Microservices
- Unit Testing
- Research and Development
- Software Requirement Specifications (SRS)

TECHNICAL SKILLS

Platforms: Windows 7/8/10/11/Server, Linux (Ubuntu, Mint, CentOS, Kali, Raspberry Pi OS), Minix 3.2.

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

Frameworks: Spring/Spring Boot, Hibernate, Junit, Mockito, JaVers, Ionic, Electron, Angular, RxJS, NgRx, Jasmine, FullCalendar, Tippy.js.

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

Tools: Git, Subversion, Jenkins, Maven, Gradle, Apache Tomcat, Docker, AWS EC2, Azure Virtual Machines, Wireshark, MySQL Workbench/CLI, psql, pgAdmin, Visual Studio, Visual Studio Code, IntelliJ, Eclipse, PyCharm, CLion, Android Studio.

CAREER HISTORY

Polaris Software (formerly JML Software Solutions Ltd.) Software Engineer

Nov 2021 – Present

Joined the engineering team to design, build, and test existing and new features for the latest version of the Chronicle operational management system. Notable deliverables that I contributed to the project include but are not limited to:

- Currently creating a tool that will allow customers to transform data exported from their current Chronicle instance into a shape that can be used within the new version of Chronicle. This tool is being implemented using Spring Batch.
- Reimplemented the training event resulting workflow so that events could be resulted as either initial or refresher events. This required adding additional functionality to both the server and the UI pages users interact with.
- Built the training event instructor and registered students review pages. These pages allow users to see all the choices they made during the multi-step form and navigate to a specific section if they want to make any changes.
- Researched, designed and built the training event and session calendars, the functionality provided by these pages allow users to create, view, and edit events in a more visual way than the corresponding form pages.
- Investigated, proposed and implemented a more robust error handling mechanism for both the server and UI.
- Reimplemented the Create/Edit Training Event and Training Package pages in Angular using NgRx.

- Created the Training Event Owner Modal and custom list component used to preview possible owners from a filtered subset of instructors.
- Researched potential Business intelligence tools that could be incorporated into a future Chronicle release. A proof-of-concept was built using various solutions and then graded against a set of requirements.
- Added student required notification functionality to the Chronicle system. This allowed the system to send out emails to inform students when they are required to attend an upcoming training event.
- Implemented the mechanism used to audit all actions performed in the new version of Chronicle. This included a page that could be used to view all audit records generated by the application.

**Morrisons
Customer Assistant**

Oct 2021 – Nov 2021

- Picked merchandise to fulfil customer orders for Amazon Prime deliveries.

QUALIFICATIONS

- Advanced Computer Science MSc – Distinction, Newcastle University.
- Computer Science BSc (Hons) – 1st Class, Newcastle University.

PERSONAL PROJECTS

- Currently teaching myself the Go programming language:
 - <https://github.com/JoeSheen/godo>
 - <https://github.com/JoeSheen/monkey-lang>
 - <https://github.com/JoeSheen/go-with-tests>
- Banking backend application built to solidify my understanding of core components within the Spring Boot ecosystem:
 - <https://github.com/JoeSheen/banking-system>
- Blockchain built using the Rust programming language:
 - <https://github.com/JoeSheen/Onyx>

ADDITIONAL INFORMATION

- Level 3 non-police clearance (expires 29/06/2029).
- Gold Duke of Edinburgh award holder.
- Achieved Queen's Scout Award - this is the highest award someone can achieve in a non-leader position.
- NCS (National Citizenship Service) award holder.

References available upon request.