Madison Beare

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Melbourne, Victoria

SOFTWARE ENGINEER

As a Software Engineer at REA Group, I bring a wealth of experience in developing advanced solutions. My technical expertise is showcased through leading code uplifts, optimising processes, and collaborating with cross-functional teams to deliver efficient, scalable products. Proficient in React, Kotlin (with JDBI), Docker, GitHub, Buildkite, and AWS (including Temporal, SNS, SQS, RDS, ECR, and S3), I specialise in impactful software development, orchestrating modern architectures to decommission legacy codebases and databases.

KEY COMPETENCIES

Java / Springboot	Database Management Design	Team Leadership
Agile Ways of Working	Testing and Quality Assurance	Communication
Kotlin / React	Technical Documentation	Problem Solving

PROFESSIONAL EXPERIENCE

REA Group | Software Engineer   **August 2024 - current**
Listings Tribe
React, Typescript, REST APIs, GraphQL, Kotlin, Buildkite, AWS (SQS, SNS, ECS), Jira.

Accomplishments:

- **Developed and maintained** front-end features using React and TypeScript. Built and styled UI components with CSS, closely following designer mockups to ensure visual and functional alignment for realestate.com.au.
- **Connected front-end to back-end services.** Integrated both REST APIs and GraphQL endpoints to enable seamless data flow and real-time interactions between the UI and server-side logic using Kotlin.
- **Designed and implemented** a new PostgreSQL database schema. Utilized JDBI for database interactions and leveraged JSONB objects for flexible, high-performance data storage and retrieval.
- **Collaborated in an Agile environment**. Actively participated in stand-ups, sprint planning, and retrospectives, contributing to continual team improvement and fast-paced delivery.

Mantel Group | Software Engineer / Consultant   **Jun 2024 - August 2024**
Fuji Film
API Web Service Development, Java 17, Quarkus, JWT Tokens, AWS (EKS, S3 Buckets, Namespaces), MongoDB, Kubernetes (Kubectl, Minikube), Helm, Jenkins, Jira.

Accomplishments:

- **Created and owned web service APIs**, demonstrating leadership in design, implementation, and ongoing maintenance.
- **Designed and implemented API endpoints** using Java and Quarkus, integrating security annotations, OpenAPI annotations, and comprehensive security functionality within API controllers.
- **Utilised JWT tokens** for secure authentication, integrating with AWS Cognito to control access for specific user groups.
- **Deployed web services** using Kubernetes (kubectl, Minikube) and Helm, responsible for both local and cloud deployments.
- **Managed AWS deployments**, including EKS clusters, S3 buckets, and namespaces, ensuring reliable and scalable cloud infrastructure.

Mantel Group | Software Engineer / Consultant   **Feb 2022 - Jun 2023**
PEXA
API Development. Java 11 & Java 17, Spring MVC / Springboot framework, Open API
generator, PostgreSQL, Liquibase, Docker, GitHub, Postman and AWS.

Accomplishments:
- **Optimised** time-consuming database reset script usage, reducing execution time from 5 minutes and 44 seconds to 0.4 minutes, saving approximately 27 working weeks of time.
- **Analysed** database fields, entities, and relationships, leading to strategic design decisions that significantly influenced further data persistence and database design enhancements.
- **Owned** small-to-medium features from technical design through to completion by collaborating with clients to determine business requirements and outline project scope.
- **Improved** code readability and complexity by eliminating technical debt and conducting major refactoring.

Deloitte | Technology, Strategy & Transformation Analyst   **Feb 2021 - Feb 2022**
Australian Taxation Office
Provided vision, strategy, and roadmaps for wide-scale transformations to IT infrastructure and operations, aligning technological changes with business goals.

Accomplishments:
- **Executed BPMN 2.0** process mapping for dependency work, feature development, deployment, bug
- identification, and PI planning.
- **Managed PMO** duties, including timesheet reconciliation, status reporting, meeting minute completion, and efficient coordination and planning of project and program-level meetings.
- **Actively participated** in client meetings and working groups to discuss and comprehend project requirements.
- **Developed** visually appealing Microsoft PowerPoint and Excel templates for client and employee presentations.

LEADERSHIP EXPERIENCE & ACTIVITIES

Mantel Group Mentor   **June 2022 - Oct 2022**
(Technical - Java)
- **Provided** comprehensive guidance on software practices, Java specifics, and coding best practices.

Mantel Group Mentoring   **December 2023**
Program Creator

Mantel Group Panel Speaker - "What is a software engineer anyway?!'   **July 2022**
student event

EDUCATION

University of Queensland
Bachelor of Engineering (Hons) - Extended Major
Mechatronics Engineering

University of Queensland
Bachelor of Science
Computer Science