Kyle Milner

Software Engineer (Backend)

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About

I am a passionate, highly motivated Software Engineer who likes to write self-documenting clean code. A self-starter who loves to learn, I have a broad range of skills with specific focus around the Java ecosystem and a leaning towards backend web development. I'll never stop asking why things are done and how they can be made better. I am looking for a team who share my enthusiasm for quality, who aren't afraid to move fast and break things and, most importantly, enjoy what they do.

Work Experience

Sabbatical

Travelling throughout Asia, New Zealand & Australia

2018 - 2019

World Programming Limited, UK

Senior Software Engineer - WPS Hub (Backend)

2016 - 2018

WPS Hub is a web app for management and deployment of WPS Analytics systems across a company network with centralised user management. It provides a repository of multi-language programs for real-time and on demand execution via web APIs. Reporting directly to the Director of Technology I was responsible for the design, implementation and testing of services and RESTful APIs across multiple web apps. Primarily working in Java 8 to a service oriented architecture and with Relational SQL targetting data in graph layout I produced domain optimised data processing pipelines, developer friendly customer facing APIs and scalable, performant production code. Working closely with the frontend team I helped define the design language and UX used throughout the apps and provided occasional development help. As an experienced agile practitioner I worked with stakeholders & project managers to gather and scope requirements into manageable, achievable work items.

- Led backend development through the entire software lifecycle from initial concept research & prototyping to multi-customer MVP beta and ahead of schedule production release in 12 months
- Produced a bespoke Java annotation powered web framework to enable rapid microservice creation with minimal configuration
- Introduced use of Docker in build pipelines which was later used company wide
- Piloted adoption of Kanban style working as first agile team in the company
- Made steps to becoming Full Stack with commits to production on Vue.js powered frontend & dev-ops contributions

IBM i2

Staff Software Engineer, i2 Analyze (Backend)

2014 - 2016

i2 Analyze is an Intelligence Analysis, Discovery & Visualisation J2EE powered web application. Main responsibilities include design and implementation of data discovery and retreival features at both the Application and Persistance layers - primarily developing in Java 8 & SQL. Working in a Kanban Agile team with 2 week sprint cadence I am responsible for building client-facing RESTful APIs for search & discovery services against a Big Data repository and the Data Access Layer interfaces required to support them. Other responsibilities include mentoring junior developers, collaborating closely with cross-site front end development teams and acting as technical contact for non-technical team members.

- Designed and Implemented an asyncronous REST API for Search
- Transitioned application services to using a new underlying datasource with zero downtime or test regressions
- Lead a full optimization-focused rewrite of Data Retreival Service (DAO & SQL layers) to unblock a product release - measurable 10x performance after rework
- Introduced templated generation of Database DDL for deployment pipeline
- Independently produced a proof of concept for auto generation of external datasource plugins which was productised and shipped
- Promoted in year one

IBM CICS

Software Engineer, CICS Explorer

2013 - 2014

CICS Explorer is a desktop Eclipse-based management console for the Mainframe application server CICS. Developer responsibilities included supporting released product versions, new feature design and implementation. Developing in Java 7 in a Scrum Agile team I was primarily focused on adding improvements to existing features and filling capability gaps to a similar legacy web console. Development required UI design & working with mainframe XML based web services. Also became owner of the SDK plugin for deploying web applications to CICS.

- Presented at UK customer & partner conference
- Early promotion from Graduate Scheme
- Owned SDK plugin for IBM Liberty on CICS
- Introduced new feature-rich Manifest Editor which was later adopted as the default editor by the wider IBM zOS-Eclipse tools ecosystem

IBM CICS

Graduate Software Engineer, CICS Explorer

2012 - 2013

Responsibilities included maintenence of existing FV test suites & creation of automated regression tests for new product features working in line with development team. Primarily working in Java with Junit and IBM regression test tooling.

- Owner of various product area test suites as a graduate
- Provided defect fixes to development team in every release
- Wrote an extensible test result reporting web app used across CICS department
- Produced onboarding education used by CICS teams worldwide

Education

University Of Sheffied, UK

Artificial Intelligence & Computer Science , BSc(Hons) First Class

2009 - 2012

Publications

Automatic Call Handling during Active Conversation

Patent Pending

2015

Skills

Technical

- Java 8+
- SQL & noSQL
- Front & Backend API Design
- TDD/BDD
- Software Design Patterns
- CI/CD - Jenkins, Gradle, Maven, Docker
- Source Control - Git, GitHub
- HTML/CSS/JS (comfortable)
- Swift (beginner)

Non-Technical

- Detail Oriented
- Mentoring
- Agile Methodologies - Scrum & Kanban
- JIRA
- Pair Programming
- Technical Communication
- Code review
- Problem Solving
- Presenting to Customers