

# Joshua Hall

IT Software Engineering professional with two years experience and an undergraduate degree from the University of Hull

## Key Skills

C# - SQL – CosmosDB – ServiceBus – Terraform - XUnit – Azure – Microservices – TDD

## Work Experience

### **Navico, Hammersmith**

December 2018 – Present

#### **Mid-Level Software Developer**

- Owned the implementation of a Subscriptions .Net core microservice. This involved pipeline creation, terraform scripts for the infrastructure, creation of HTTP and service bus triggered functions and alerting with a focus on adaptability and scaling.
- Helped facilitate and implement a high coverage and robust approach to development with multiple 'Status' endpoints for positive alerting, detailed acceptance tests and unit tests ran at different points in the pipeline, negative alerting for quick error notification, JMeter load test and Grafana dashboards for higher level monitoring.
- Actively participated in architectural discussions and planning sessions as scopes for work were broken down and possible solutions to problems were raised (such as Azure FrontDoor, EventHubs and CosmosDb collections) befitting each specific instance with a consideration to price and scale.
- Took responsibility for not my own services and the ongoing support these required but also was involved in the handover of a wide variety of other services used in live environments by the multiple app teams.
- Ensured continuous delivery with high confidence was possible with a focus on uninterrupted user experience and quick implementation of changes (with technologies such as DeploymentSlots allowing quick rollbacks and gradual traffic transferring an example of how to make this process safer).
- Worked with Identity concepts such as OAuth and IdentityServer4 to assist with the implementation of an updated SSO Solution suitable for multiple brands in the business.

### **Parenta, Maidstone**

January 2018 – December 2018

#### **Junior Software Developer**

- Produced multiple complex features connecting C# backend classes with Angular2 frontend commands in a system designed around component-based architecture. Entity framework was used to separate the business logic and database layers.
- Developed front-end webpages to be responsive across multiple devices and resolutions. Successfully developed enough knowledge in doing so to become a go-to person for front end issues.
- Worked in a strict TDD environment allowing for development of skills in Unit Testing, using NUnit, and Integration Testing to ensure the completed features worked as expected. The ability to pick up an understanding of testing was rewarded with an introduction to automation testing, to bridge the gap between development and QA testing to ensure greater overall testing coverage.
- Took a hands-on involvement in the expansion of the company to include a development team in India. This was a chance to improve on my communication skills and demonstrate debugging and problem solving remotely. The success in doing so led to myself becoming a second when working with our Indian team.
- Gained experience in full cycle of software implementation from the planning stage through designing,

creation and testing. This has allowed for an understanding of how projects are run and what needs to be considered when undertaking a task.

## **Lighthouse Systems, Crawley** July 2017 – January 2018

### **Project Engineer**

- Constructed C# scripts to handle manufacturing information to meet client needs under strict coding standards.
- Demonstrated SQL competence creating comprehensive queries to handle data displayed and table configuration for client solutions.
- Developed customer relations skills working directly with customers worldwide over the phone and in person to provide complex solutions to manufacturing problems on tight deadlines.
- Improved problem solving and investigation skills by taking over the support responsibilities of the Office within two months of starting.

## Education and Qualifications

### **University of Hull, BSc Computer Science**

**Grade: 2:1 (GPA: 3.33–3.67)**

**2013-2017**

Gained a solid understanding of the foundations of programming in C#, Java and C++ whilst learning general information regarding software engineering techniques and computer systems over my three year of studies.

#### **University Modules:**

**Year One** Computer Systems, Information Technology and Professional Skills, Programming I and II, Quantitative Methods of Computing and Software Engineering and Human Computer Interaction.

**Year Two** Advanced Programming, Artificial Intelligence, E-commerce and E-business, Information Systems and User Interface Design, Networking and Web Technologies and System Analysis, Design and Process.

**Year Three** Starting and Managing a High-Tech Business, Virtual Environments, Data Mining and Decision Systems and Mobile Devices and Applications

### **California State University Los Angeles**

**2015-2016**

Built on previous programming knowledge whilst adapting to a new environment. Developed an understanding of the Java programming language whilst learning how to implement skills in new knowledge areas, such as Parallel and Distributed Computing and Computer Graphics and achieved a 2:1 in the process.

#### **University Modules:**

Web and Internet Programming, Computer Graphics, Principles of Database Systems, Parallel Distributed Computing.

### **St Simon Stock Catholic School, Maidstone, Kent**

**2011-2013**

A-Levels: English Literature (B), Business Studies (C) and ICT (D).

### **Holmesdale Technology College, Snodland, Kent**

**2006-2011**

Attained nine A-C grade GCSEs including English, Maths and ICT.