

Resume of Jakes Potgieter

9 Merrick Close Stevenage SG1 6GH

Nationality: British / South African **Email** jakes@ofthesea.io **Mobile:** +44 7482 189455 **Web:** <https://ofthesea.io>

Current Skills

C# 8, ASP.Net MVC 5, ASP Core Web API, Azure, Docker, Kubernetes, Core 2.2, Xaml, Angular, JavaScript, Typescript, JQuery, Microservices, HTML5, C++, Java, Python, PHP, T-SQL, XML, Json, Dart, Flutter, Microcontrollers (ESP, SAM, STM32), PCB design (KiCad), Docker, Kubernetes and Yaml.

Employment History

Andromeda POS

Full Time - June 2020 to Current (Remote) UK

- Full-stack developer (C#, MVC, Angular 9+, typescript and SQL Server)
- Developed green field projects and maintained existing frontend point-of-sale applications.
- Maintaining of CORS API for SAAS applications
- FDLC through Microsoft DevOps and Azure
- Domain - <https://andromedapos.com/>

BigOceanData

Full Time – September 2019 to February 2020 (Remote) UK

- Full-stack developer (C#, MVC, AngularJS and SQL Server)
- Development of new feature for Pole Star and fixing defects in the current application
- FDLC through Microsoft DevOps
- Domain - <https://www.bigoceandata.com/>

Signeto Limited

Full Time - January 2016 to July 2019 Barnstaple (Remote) UK

- Designed and developed an air monitoring system that monitors specific incoming air quality compounds within HVAC systems. Monitoring of Carbon Monoxide (CO), Nitrogen Oxides (NOx), Volatile Organic Compounds (VOCs), Particulate Matter (PM), Ozone, Temperature, Humidity and Air Flow through the ducting.
- The Flux Platform was developed in C# 7 MVC 5.0 and ASP.Net Web API 2.0 RESTful services. Developed in a monolithic MVC pattern, but currently migrating it into a microservices architecture using Microsoft Azure for continuous integration, delivery & deployment through Microsoft pipelines from GitHub.
- Messaging between microservices through RabbitMQ using RPC, Direct or FanOut using Queues and Exchanges.
- Data is stored in a Microsoft SQL Server 2016 database, using Dapper as the ORM linking.
- The PCB to monitor the HVAC system was designed in Kicad with the firmware written in C++ on the ESP8266 chipset. The gateway that collects the information from the air quality controllers uses low-level sockets for communication. Minimising packet overhead is essential. Data sent to the cloud is encrypted via 256 bit AES encryption on the device and sent over a 512 bit SSL layer.
- Real-time information and a reporting platform to monitor progress and performance fluctuations.
- A Flux backend system was developed Angular 7 using ASP.Net API Core 2.2, to control aspects such as accounts, releases and firmware updates.
- Domain - <http://www.signeto.co.uk/>

Senior Software Developer KeyTravel Limited

Full Time - March 2015 to July 2015 London, UK

- Developed an Auto Ticketing Agent in C# 4.5 that verifies the contents of a traveller's ticket. It tests the validity of the PNR (Personal Name Record) when a ticket is booked by an agent or media channel within Amadeus e.g. Completed an existing project that creates virtual credit cards for business when doing bookings through KeyTravel. Once the virtual card has been processed, the client is billed back at a later date.
- Domain - <http://www.keytravel.co.uk>

Senior Software Developer Derivco**Full Time** - September 2010 to January 2015 Durban, South Africa

- Senior developer for an enterprise operating solution system for land-based casinos.
- Development methodology was in Agile, with daily scrums, planning, retrospective, demos and planning.
- Developed using Silverlight C# 4.5 hosted on Azure Servers. Async communication from client to WCF services.
- Creating and scrubbing of existing SQL procedures.
- Development of WPF applications to automate routine tasks during sprint work.
- MEF and dependency injection (DI) used to inject applications into the custom framework.
- Developed account management, shift management, vault management, Gameplay management, device management, BI reporting and hardware integration such as Gaming Devices and card readers.
- Developed using the Test Driven Development (TDD) within a four-week agile process via scrum at first, then later switch to Kanban to help with the management of defects or change request items from the production:
 1. Planning – With product owner and Business Analysts (Done during integration testing week.
 2. Development – Development of features pulled into the sprint. Two-week development cycle.
 3. Quality Assurance – Functional testing as development features are signed off.
 4. Integration.
 4. Testing – Merging of development from dev branches into the trunk.
- Domain - <http://www.derivco.com>

Senior Software Developer SA Web Design**Full Time** - January 2010 to August 2010 Durban, South Africa

- Part development of sports betting backend application, IBOS for BettingWorld using C# 2.0.
- Developed the betting portal frontend application in Silverlight 3.0 / 4.0 using C# 3.5 and WCF RIA services, using the MVVM pattern, including socket development to push data from the server to the client for real-time updates. This included writing the design requirement specification, high-level documentation and UML design before development proceeded.
- Setup and maintenance of Team Foundation Server (TFS).

Senior Software Developer BB&D**Full Time** - July 2009 to December 2009 Cape Town, South Africa

- Contracted to Nedbank as a regional enterprise lead developer. Development was on a build-with partnership with Microsoft targeting their Customer Care Framework – MCE in .Net 3.5 and used Service Oriented architecture for data access requirements.
- Analysing Design Requirement Specification (DRS) and High Level (HLD) documents with Business Analyst and Software Architects.
- Planning and Management of software lifecycle (Agile) and workloads for my development team.

Contract Senior Developer Consultant**Full Time** - September 2007 to June 2009 Durban, South Africa

- Developed a Silverlight 2.0 subscription tool to control the migration of CD subscriptions to Online. Technologies utilised consisted of WPF and WCF developed within 3 Tier patterns. SQL 2005 data linked onto DB2 ERP server.
- Conversion of legacy AS400 EDI module to a Web Service framework. The framework captures electronic orders from selected book stores and processes the orders automatically via the company's ERP system. Web Services, HTTP, FTP and SMTP. Development was done in C# 3.0 targeting the .NET 3.5 framework, together with the utilisation of Windows Communication Foundation (WCF) and UML for the design of patterns and application workflow.
- Lead developer of an online logistic control application (ASP.Net, AJAX, SQL) for the Department of Justice and Law Library Service. This included using the EDI / Web Service module (mentioned above) to automatically dispatch invoices on the month-end for completed work. Designed and developed both database ERD and UML design.
- Developed a web portal in C# 2.0 to host as an intranet/internet web application for document assembly in the legal and professional markets.

Senior Developer Signeto**Full Time** - April 2006 to September 2007 Welwyn, United Kingdom

- Developed intranet modules that control database transactions and processes for clients using ASP.Net 2.0 (C#).
- Developed an e-commerce module to integrate with Barclaycard Business for online transactions for clients using Web Services.
- Design of relational databases, including the writing of stored procedures, triggers and views and setting up of replication across multiple domains.
- Developed a Task and Progress management system using PHP 5 (Linux Based) that controls the workflow of projects, assigning tasks to individuals or groups of employees and reporting on the status of each project.
- SAPI filter (C++) to monitor and filter incoming messages through the website.

Software Developer LexisNexis, Reed Elsevier Group**Full Time** - Aug 2002 to March 2006, South Africa

- Designed and coded a legal application in ASP.Net 2.0 (C#), that analyses case law to produce a detailed overview for the legal professional market, to show which judgments have precedents and the strength of each judgment. This also included different views on the same data and the history of each judgment.
- Part coded an email notification system in ASP.Net 1.1 (C#) that notified the legal market of government released gazetted information that amends the South Africa statutes. The notification system sends over 11 000 custom emails that also include current news, case law and the South Africa Law Report series that may have been released or amended.
- Coded client/server application using C# and COM to extract, analyse and format the data from Microsoft Word. The data was then converted into XML (XSL), imported into SQL server for online use.
- Designed and coded a full e-commerce module using J2EE standards and specifications (Websphere Application Server) to integrate into the existing corporate ERP system, IBM AS400 server using DB2.

Software Developer Club Publishing**Full Time** - May 2001 to June 2002 United Kingdom

- Designed, developed an online event system. This included the design and administration relational database (SQL 7).
- Retrofitted ASP to ASP.Net 1.0 (C#) on local intranet.
- Design and developed an importing programme (C++) that formatted and integrity tested the data before exporting it. from Microsoft Excel into SQL Server 2000 via a COM component.
- Administering of all database and web servers (development, staging and production).
- Coding custom web service data feeds for clients in US & Europe. These include customers such as Yahoo.

Edge Computer Systems**Full Time** - February 2000 to March 2001 Durban, South Africa

- Part designed and coded a distribution intranet for South African Breweries that assisted in volume control across three distillers. RPC calls were done through C++.
- Developed the company's website and online helpdesk ticketing system using Java and SQL Server 7.
- Worked closely with clients to establish system designs for CRM product Ascent.

Education

Durban Computer Tech Durban, South Africa Course

Microsoft Certified Systems Developer (MCSD) - 1998. A+, Microsoft Certified Systems Engineer (MCSE) - 1997

Umtata High School Grade 12 Subjects: English, Afrikaans, Maths, Geography, Biology, History - 1996