Christopher Wells, Software Developer

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MSc Computing Science
BA Mathematics

English native speaker
French C2
German A2

Swiss passport
British passport

Summary

Full Stack .NET Software developer with 5+ years experience in design, development, testing, and deployment of web applications and Windows applications, in the cloud and on premises.

Skills

- Microsoft Azure
- Azure DevOps
- Terraform
- Jenkins
- JavaScript
- jQuery
- React.js
- Redux
- Typescript
- npm

- Python
- pandas
- numpy
- conda
- node.js
- Docker
- Kubernetes
- Java
- Git
- GitHub

- C#
- .NET Core
- Entity Framework
- nuget
- ASP.NET MVC
- C++
- SQL
- HTML
- PowerShell
- CMD

- Agile
- Scrum
- TDD
- CI/CD
- Jira
- Zenhub

Experience

BigHand, Central London
Software Developer
March-July 2022
Development of new features and bug fixes for the BigHand Hub platform.
- My main focus was development for the .NET Core API that powers their application.
- Also fixing bugs in the desktop application, Windows services, and web frontend that use that API.
- Team structured according to the Agile and Large-Scale-Scrum (LeSS) framework.
- Using TDD to develop new features. Wrote NUnit tests for any new features or changes to existing (untested) code. Also wrote some Jasmine tests for the frontend side.

RES Group, King's Langley, Hertfordshire
RES is a global renewable energy company developing, constructing and operating wind farms, solar farms, and energy storage sites.
In all the roles below, I developed tools to improve the effectiveness of our engineering and finance teams.

Software Developer
2019-2022
Project: Azure migration
Supporting the migration of our assets (web apps and scheduled jobs) from on-site servers to the Azure cloud.
- Set up CI/CD pipelines in Azure DevOps
- Security analysis (identities managed in Azure AD network-level security)
- Infrastructure management in Terraform

Project: Condition Monitoring and fault detection systems
Technical support and development of software to interpret OPC data (industrial telecommunications platform) for live monitoring of on-site systems.
Development of the condition monitoring system, and the associated vibration analysis interface.

Economic Model Software Developer
2018-2019
Project: Global Economic Model
Designed and implemented the economic model, developed in collaboration with the finance team.
- Numerical analysis in Python, using Pandas and NumPy

- RESTful API in node.js connecting the numerical analysis to the front end
- Web front end in React and TypeScript
- Microservices architecture using Docker, orchestrated in Kubernetes

Software Developer

2017-2018

Project: Pre-construction analysis

Maintenance and development of internal tools for analysis of weather data.

Migrating the build process to the cloud.

- Windows forms applications written in .NET Framework
- Jenkins and Azure DevOps build servers

Teaching assistant @ University of Lausanne, Lausanne, Switzerland

2013-2014

Prepared computer-mediated exams for the Operations Management course.

Junior Engineer @ St. Noble Company, Geneva, Switzerland

2012-2013

St. Noble Company was an IT services company specialising in SharePoint 2010

Education

MSc Computing Science @ Imperial College London, UK

2014-2017

Individual project: "Elliptic Curve Cryptography in Secure Multiparty Computing Environments"

Scholarship to attend the 2016 Theory And Practice of Multi-Party Computation conference in Aarhus, Denmark

Used the open-source cryptography library FRESCO and contributed changes back to it

BA Mathematics @ University of Cambridge, UK

2009-2012