Samuel Chorvat

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EDUCATION

MSci Computer Science; First Class Honours

2017 - 2021

University of Birmingham

Birmingham, United Kingdom

SKILLS SUMMARY

• Languages: C#, Java, SQL, SPARQL/RDF/OWL, JavaScript, Python, C/C++

• Tools: GIT, Azure Data Factory, Azure Pipelines, GitHub Actions, Docker, Kubernetes

• Cloud: Microsoft Azure (AZ-900 and AZ-204 certifications), DigitalOcean

Work Experience

Kainos
Software Engineer (Full-time)
Birmingham
July 2021 - Present

Defra - Department for Environment Food and Rural Affairs (March 2023 - Present)

* Proof of Concept project using Semantic Web and Azure

NHS App England (September 2021 - January 2023)

- * Full stack (including Analytics) developer
- * Worked on web front-end (JavaScript Vue.js), back-end (.NET C), native app (Xamarin) and Analytics (ETLs, PostgreSQL, Azure Functions, AzureData Factory ...)
- * Also part of a team responsible for releasing weekly configuration patches to production
- * Presented at team and project wide knowledge share meetings

Completed Engineering Academy (July 2021 - September 2021)

University of Birmingham

Birmingham

Teaching Associate for Software Workshop Module (Part-time)

Sep 2019 - Mar 20

- Helping students with lab exercises during lab sessions and with assignments during help desk sessions.
- Working in a team of lecturers and teaching associates.

PERSONAL PROJECTS

https://samuelchorvat.github.io/#personal-projects

Ashcrown 2019 - 2023

Cross-platform online strategy game for PC/Android/iOS

- Game Client: Unity (C#)
- Game Server: Java (SmartFoxServer Framework)
- o Database: SQL(MySQL)
- CI/CD Pipelines: GitHub Actions Pipelines for automatic build/test/deployment of the front-end to App Store/Google Play/Steam and back-end to DigitalOcean
- o Other: Multiple environments(localhost, Dev/Staging and Production). Certificates managed using let's encrypt. Separate virtual private networks/clouds and firewall whitelisting to secure them. In-app purchases are implemented for all platforms including server side receipt/purchase validation. "AI" implemented using adapted min-max algorithm.

Man In The Middle 2019 - 2020

- * Cross-platform educational puzzle game about breaking cryptography and cryptographic protocols
 - Game Client: Unity (C#)
 - Other: The game is split into two main sections.
 - * Introduction to Cryptography Introduces player to world of cryptography in form of puzzles. From simple caesar cipher to block ciphers and AES
 - * Protocol Attacks Goes over cryptographic protocols that increase in complexity as player progresses through the game and asks them to spot and exploit weaknesses in them