

# Samuel Chorvat

Software Engineer  
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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/SHACL, 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** Birmingham  
*Software Engineer (Full-time)* *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)
  - **Database:** Relational (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
  - **Other:** Multiple environments(local, Dev/Staging and Production). In-app purchases 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 ciphers and cryptographic protocols*
  - **Game Client:** Unity (C#)
  - **Other:** This game was my Final Year Project