

LIAM VORSTER

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EDUCATION

University College Dublin

Dublin, Ireland

BSc (Hons.) Computer Science, University College Dublin

2019 - 2023

- Thesis: Decision Support System for Hypermedia Environments
- Relevant Coursework: Data Structures, Algorithms, Distributed Systems, Cloud Computing, Performance Engineering, Contemporary Software Development, Programming for Big Data, Machine Learning, Graph Theory, Multi-Agent Systems

TECHNICAL SKILLS

Languages: Java, Typescript/Javascript, Python, Scala, Bash

Frameworks: Spring Boot, Flask, Nodes.js, GraphQL, REST

Tools: AWS, IaC, Kubernetes, Docker, Unix, Git

WORK EXPERIENCE

Amazon Web Services

Dublin, Ireland

Software Development Engineer Intern

Mar 2022 - Sep 2022

- Designed and implemented a workflow engine for Amazon Enterprise Engineering (Identity and Authentication).
- The workflow engine was responsible for providing a flexible periodic workflow automation for querying customer information across many data stores. This enabled my team to better manage and query the datasets of over 15000 customers.
- I owned the project's entire software development lifecycle, after been given an initially semi-defined problem. Deployment was managed through a series of CI/CD pipelines for the AWS infrastructure.
- Gained an understanding of security protocols such as SAML, OAuth, OIDC, etc.

University College Dublin

Dublin, Ireland

Research Assistant

Jun 2023 - Present

- Performing research as part of the [CONSUS](#) research program, focusing on developing novel precision agriculture systems. Consistently engaging with agriculture experts to distill expert knowledge, meet customer needs, and enhance the system design process.
- Developing an enterprise-scale distributed knowledge graph to support next-generation smart agriculture systems.

PERSONAL PROJECTS

Hypermedia Decision Support System Final Year Project at UCD (2023, received A+) as part of the CONSUS research program. Designed and implemented an evidence-based novel Intelligent Decision Support System for knowledge graphs. The developed system is under integration into the live infrastructure of Origin Enterprises PLC. It will be used as a prototype decision support tool for agronomists and farmers that will be evaluated across the UK.

Maze Solver Built a personal project for exploring different maze generation (recursive division, Prim's algorithm, etc.) and path finding (Breadth First Search, Depth First Search, etc.) algorithms using a custom grid GUI.