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Arthur Jacobs

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Skills

Proficient Java, Python, Excel, SQL, PowerShell, Windows
Familiar Bash, PHP, C, Batch, Haskell, MacOS, Linux

Education

BSc Mathematics and Computer Science with Industrial Year **September 2024 - Present**
University of Birmingham

- On track to graduate with a 1st.
- 86% Achieved in Object Oriented Programming, excelling in the use of parsers to generate text-based games off user input.
- 70% Achieved in Data Structures and Algorithms, sparked a particular interest in graph theory.
- Excelled in programming with Java while using Git to update and submit work.
- 96% achieved in examination on SQL and Databases.

A Levels - Mathematics (A*), Further Mathematics (B), Religious Studies (B) **September 2022 - August 2024**
The Windsor Boys' School

- Cultivated a passion for mathematics, specifically real analysis and statistics.
- The philosophical side of Religious Studies furthered knowledge of logic and mathematics when applied to theological and existential problems.

Experience

Information Technology Engineer, Placement Year **August 2026 - Present**
Pickl LTD, London

- Provided IT support and administration for over 50 SME clients, locally and globally.
- Coded a 3000-line company-wide PowerShell laptop setup script, including advanced app configurations and VPN deployment, saving over four work hours weekly.
- Implemented agentic AI for the company, building them an agent with complex integrations via RESTful APIs.
- Managed Google Workspace and Office 365 environments, including Intune and Entra ID.
- Set up and maintained complex networks of over 200 devices using Unifi, and Sophos for firewall configuration.

Technical Assistant **November 2024 - Present**
Guild of Students, University of Birmingham

- Led the lighting and sound for weekly club nights, as well as six large scale musical productions to date.
- Trained on how to rig and program lights for university productions with audiences of up to 600 people.
- Learned the fundamentals of live sound mixing and equalisation, mixing 20 microphones on stage at once.

CyberFirst Futures **August 2022**
National Cyber Security Centre

- Two week virtual course on cyber security skills.
- Learned valuable skills such as exploiting OSINT and identifying port vulnerabilities.
- Gained experience on setting up secure networks and computer systems, carefully considering user privileges.

Projects

Barbershop Rehearsal Hub - Web App **September 2026 - October 2026**
Created a web app from scratch for the Barbershop Singing Society, co-authored with Claude Code.

- Deployed on Azure using App Service, Cosmos DB, Blob Storage, Key Vault, with Bicep IaC.
- Built a GitHub Actions pipeline that uses federated credentials and managed identities.
- Migrated the app to a new tenant due to university policy restrictions blocking app registrations.

Java Project - Text Based Game **October 2024 - December 2024**
Makes use of a parser to create a fully customisable text game from a singular text document.

- Implemented tokens and parsers to generate a game from a single text file.
- Adopted strong error handling practices for both user inputs and parsers.
- Applied advanced object oriented programming concepts such as inheritance, enumerators and encapsulation.

Activities

Director of *Upstaged* showcase, *Guild Musical Theatre Group* December 2025 - March 2026
President and Founder, *Barbershop Singing Society, University of Birmingham* June 2025 - June 2026
Production Runner, *Music Plus Sport* June 2025 - September 2025