Iain Mckenzie  
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**Education**

**BSc Computer Science** – The University of Dundee  
Expected graduation: Summer 2027

Modules completed include:

* Introduction to Software Design
* Introduction to Data Structures and Algorithms
* Database Systems
* Operating systems

**Technical Skills:**

* **Programming Languages**:  
  Java | C# | C |.NET MAUI | Python
* **Databases**:  
  MySQL | SQLite
* **Web Technologies**:  
  HTML | CSS | JavaScript | PHP
* **Version Control**:  
  Git | GitHub
* **Development Tools**:  
  Visual Studio | Visual Studio Code

**Work Experience**

Software Engineer – [Orkney College]  
*2020 – 2023 | In-person*  
Key Technologies: C#, MySQL, Dapper

* Developed an internal booking system for the college's hospitality restaurant, which is currently used daily by over 3,000 users.
* Utilized C# and integrated MySQL with Dapper ORM to ensure high performance and scalability as the system's user base grew.

**Projects**

Home Server Setup

* Set up a home server on an old PC by installing Ubuntu 24.04 LTS and configuring a MySQL database server.
* The server also functions as a media-sharing device for the home network.

Meal Planning Mobile App

* Developed a mobile app using C# and the .NET MAUI framework to store ingredients and create random meals from a database of purchased items.
* Implemented Dapper ORM to prevent SQL injection through parameterized SQL queries.

Python-based Password Generator

* Created a Python program to generate secure passwords, improving password strength beyond Google’s autosuggestions.
* Leveraged Python's multithreading to generate up to 500MB (about 8 million) of 20-character passwords per minute on a single core.

**Transferable Skills**

Customer Assistant – Co-op  
*February 2023 – September 2023*

* Strengthened communication skills by interacting with customers and resolving their issues efficiently.
* Developed adaptability by switching between various tasks frequently.
* Improved teamwork by working collaboratively with colleagues to meet service goals.