Kier McGuirk

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Blackrock, Dublin, Ireland

GPA: First Class Honors

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TECHNICAL SKILLS

Java, Python, C, Ruby, VB.NET, Scheme, Programming

Languages **UIPath**

Version Control

Git

Management

MySQL

Tableau, Matplotlib, Seaborn, Gephi,

Vega Lite

Web/App HTML, CSS, JavaScript, React Native Development

Project Jira, Trello, Gemini

Tools

Packages/Add-

Ons

JUnit, JavaFX, Scikit learn, NLP Toolkit

EDUCATION

BSc (Hons) Computer Science with Data Science University College Dublin

09/2018 - 06/2022

Relevant Courses

- Java

Databases

Visualization

- Data Science in Python

- Secure Software Engineering

- C / C++ Programming

- Algorithms / Data Structures

Software Engineering I & II

- Object Oriented Programming in Ruby

Databases & Information Systems

Data Mining

- Distributed Systems

PERSONAL PROJECTS

Voucher Mobile Application (4 Sprints) – React Native – (08/2021 - Present)

Currently implementing the third sprint of a personal project with a small team of six software engineers to create a mobile application in React Native. Involves a subscription-based voucher/couponing system that users can use for discounts/deals with local restaurants. Currently collaborating to create UI design, voucher redemption and creating the back-end of the app, writing APIs to store and retrieve user and restaurant data that is stored in a non-relational Firebase Database. Key features include: Facebook sign up, user authentication, restaurant favouriting, geohash location filtering, coupon redemption and savings calculator. The app is to be delivered before Summer 2022.

Software Engineering II – Scrabble (5 Sprints) – Java – Best App Prize Runners Up – (04/2020)

Collaborated with two other students to create the Scrabble board game in Java/JavaFX. This achieved 'Runners Up' for the best app prize of the entire academic year. Contributed to the development of the game logic, UI (using Java FX) and the bot that the user could play against. This involved writing efficient algorithms to check words against a dictionary (using trie data structures), calculating the best move for the bot (which ultimately competed against other bots of the academic year) and creating graphical animations for the appearance of the UI. The project followed a SCRUM development cycle, consisting of five sprints where the SCRUM master would alternate each sprint. Git was used for version control and Trello was used for development planning.

Information Systems Design and Development Project – MySQL – (10/2019)

- Devised and implemented a relational data model in **SQL Workbench** for a hospital-based scenario. Designed numerous queries in SQL for retrieving data from the database.

Software Engineering I – Igel Argern – C – (04/2019)

- Contributed to the development of a German board game, called 'Igel Argern', in **C** with another classmate. The app involved the idea of a multiplayer game, where each player would race their stack of hedgehogs to the finish line. Wrote functions to modify stack data structures by dynamically allocating and freeing memory, contributed to game logic including writing the conditions of a winning player and efficiently displayed the game on the command line.

WORK EXPERIENCE

Process Automation Engineer Intern

Bank of America

03/2021 - 09/2021 Dublin

Achievements/Tasks

- Became a qualified UIPath developer Created bots in UIPath to automate parts of the AML screening process and to provide insight
 in license reporting.
- Python Wrote scripts/programs in Python to integrate with different Bank technologies to assist in the data gathering process for an Al Proof of Concept (POC)
- Natural Language Processing AI Assisted in the development of a natural language processing AI using SVM classifiers for news article sentiment analysis. This was done in **Python** using packages like **SkLearn**.

Quality Assurance Engineer

Ayrza

06/2020 - 09/2020 One of the UK's leading suppliers of software solution into the debt, insolvency and credit fields.

Achievements/Tasks

- Tested front/back end components using white/black box, regression and acceptance testing practices
- Created relatively complex spreadsheets for aiding and assisting testing of difficult mathematical components of client applications
- Used CMS and CRM to test and configure websites and applications
- Tested APIs with Postman

Student Intern m3 Networks

10/2017 - 10/2017 Perth, Scotland

Multi-site IT support and cyber security company

Achievements/Tasks

- Awarded work experience after coming 1st place in their IT competition (see Awards and Achievements)
- Learned basic networking, hardware assembly and ethical hacking practices
- Learned how to make ethernet cables via crimping
- Learned how to use Kali Linux for brute forcing
- Learned about virtual machines by using Oracle Virtual Box

AWARDS & ACHIEVEMENTS

IT Competition – 1st Place – (10/2017)

m3 Networks

- Featured in local newspaper: https://www.cunninglygood.com/perth-company-m3-networks-inspires-tech-stars-future-innovative-perth-kinross-schools-competition/
- Achieved 1st place in an IT competition offered to all students in Perth and Kinross in Scotland. Winning awarded a £200 cash prize and work experience with the company.
- The competition involved a 10k word business proposal to rebuild a hypothetical company's IT infrastructure

Oracle Academy: Oracle Database Design and Programming in SQL – (04/2018)

Oracle

 Teaches database design/modelling and basic SQL that involved single and group functions, joins, subqueries and sequences along with DML, DDL and TCL

SKILLS & COMPETENCIES

Team Work and Communication Skills

Whilst working at Bank of America, the incredible size of the company demands solid team work and communication skills in order to develop applications collectively across the globe.

Volunteering

Code First Girls: Volunteered to teach university level girls the basics of Python programming. The team I mentored won 1st place.

REFERENCES

Dublin