

# Michael Parker

(+44) 7818-132-053    michaelrbparker@gmail.com    <http://www.michaelrbparker.com>

## Education

**University of Portsmouth, Portsmouth, England** *MEng Computer Science* (2024 – 2029, expected)

**Beacon Academy, Crowborough, England** A-Levels: Mathematics, Physics, Computer Science, and Extended Project Qualification (EPQ) (2022 – 2024)

**Dubai British School** GCSE / BTECs: GCSE Maths, English, Science, Media, History, BTEC Business, BTEC Computing and IT (2020 – 2022)

## Projects

- **Simplex Discord Bot** (2021 – Present): A feature-rich, open-source Discord bot built in Python using Py-Cord and SQLite. Actively maintained, supporting over 500 servers and 85,000 users.  
*Technologies: Python, Py-Cord, SQL*
- **Internet-Controlled Christmas Tree** (2021): Developed a system using a Raspberry Pi and Discord bot to remotely control a Christmas tree's LED colors and patterns via Discord.  
*Technologies: Python, Raspberry Pi 3B+*
- **Chef AI** (2023): Created an app for managing virtual fridges and generating personalized recipes based on ingredient availability and expiration dates to reduce food waste.  
*Technologies: Dart, Flutter, SQLite*
- **Spoon Finder** (2022): Developed a navigation app to help users locate the nearest Wetherpoons using distance metrics and a compass interface.  
*Technologies: React Native*
- **Simplistic Weather App** (2022): Designed a minimalistic weather forecasting app leveraging the OpenWeather API.  
*Technologies: Dart, Flutter*
- **Modrinth Plugins and Mods** (Ongoing): Developed server utility plugins and mods focusing on quality-of-life improvements, achieving over 1,000 downloads with positive feedback.  
*Technologies: Java*
- **Spotify Word Clouds** (2023 – Present): Created a web app to transform Spotify listening history into word cloud posters showcasing favorite artists and tracks.  
*Technologies: Python, Flask*
- **Python Fill-in-the-Blanks Tool** (2023): Developed a tool for CS educators to generate "fill-in-the-blank" exercises from Python code by removing comments, docstrings, and specific keywords.  
*Technologies: Python*

## Awards and Competitions

- **Pearson's Silver Award:** BTEC Silver Award for IT and Computing (2022)
- **UKIEPC:** Competed in the UK and Ireland Programming Contest as part of a University of Portsmouth team (2024)
- **UK Mathematics Challenge:** Entered the UK Mathematics Challenge twice. National-level competition participant (2023, 2024)
- **Google Gemini Developer Competition:** Developed an AI chef app to create custom recipes and reduce food waste (2024)
- **Kalebr Happy Plants AI:** Designed AI-based plant care solutions using a Raspberry Pi (2016)

## Skills

**Programming Languages:** Python, SQL, Flask, FastAPI

**Operating Systems:** Linux (Debian, Ubuntu, Fedora), Windows, Windows Server

**Mathematics:** Basic mathematics and applied mathematics

**Physics:** Fundamental principles of mechanics and A-Level physics

**Communication:** Fluent in British English, verbal and written

**Teamwork:** Collaborative problem-solving in academic and professional settings

**Microsoft Azure:** Experienced with AZ-900 and AI-900 certifications

**RDBMS:** Proficient in using Relational Database Management Systems

**Docker:** Proficient skills with Docker for application deployment

## Work Experience

**Facilities, Maintenance, and Lettings Assistant,** Beacon Academy, Crowborough, England (2023 – Present)

Provided support for maintaining school facilities, coordinating event lettings, and ensuring a safe, functional environment.

**Volunteer Reading Intervention,** Ashdown Primary School, Crowborough, England (2022 – 2023)

Supported students with reading challenges, fostering improved literacy skills and confidence through one-on-one and group sessions.