

Jeremiah Maniattu Bobby

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Personal Statement

A second year Computer Science, Mathematics and Physics A-Level student with a passion for programming in Python, 5 years of experience with the language and 2 years of collaborative Open Source work with experienced developers. Skilled in several programming languages, and seeking an work experience placement in order to further advance software development skills.

Education

Loreto Sixth Form College

Subject	Level of Certification	Predicted Grade
Computer Science	GCE A Level	A*
Mathematics	GCE A Level	A
Physics	GCE A Level	A

Priestnall High School

Subject	Level of Certification	Grade
Physics	GCSE (Grade: A*-G)	A*
ECDL: IT User Skills	BCS Level 2 Certificate	Distinction*
Mathematics	GCSE (Grade: 9-1)	8 (~A-A*)
Computing	GCSE (Grade A*-G)	A
Biology	GCSE (Grade A*-G)	A
Geography	GCSE (Grade A*-G)	B
Art & Design	GCSE (Grade A*-G)	B
Chemistry	GCSE (Grade A*-G)	B
English Language	GCSE (Grade 9-1)	7 (~A)
English Literature	GCSE (Grade 9-1)	5 (~B-C)
Sport	Pearson BTEC First Award	Distinction

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References can be provided upon request.

Relevant Experience

December 2017 - Present

Administrator and Core Developer: Python Discord

- Member of a 7-member staff group in a Python-oriented programming community of over 7,500 users.
- Part of the helper team, meaning that I regularly mentor beginner members on Python programming.
- The role of Core Developer requires me to work remotely on community Open-Source projects, such as:
 - **The community website**

The community website is a Python Flask app that communicates with a Rethink Database. It handles major community systems, such as a channel naming system and the Discord Bot's database. We are currently working on rewriting this website to utilize the Django framework, with PostgreSQL as the Database Management System.
 - **Snekbox**

Snekbox is our own asynchronous sandbox runner for executing code in isolation. It allows end users to execute arbitrary Python snippets, by parsing the given message, queueing the message to RabbitMQ and finally utilizing NSJail to isolate the resulting Python process.
- As an Administrator, I also organise our regular code jams, which are server wide and Python based.
- Our organisation is endorsed by the **Python Software Foundation**, **Linode** provide free hosting for our servers, and we are **sponsored by JetBrains**, who offer an "All Products Pack" key for the winning jammers, and one for each of our Core Developers.
- This was my first time working with experienced developers in a collaborative environment, and it taught me invaluable software development skills, namely:
 - The use of **Version Control Systems** like Git, hosting and reviewing this code on GitHub and GitLab.
 - **Continuous Integration** and Delivery, to ensure that the production system remains robust.
 - Writing **PEP8**, **Flake8** and **MyPy** compliant code, and implementing these techniques manually.
 - Some basic **DevOps** work, such as managing and monitoring production states with Saltstack.

Additional Information

Cyber Discovery

As I consider the protection of web applications to be just as important as design, I completed a **Cyber Security programme** during March of this year, where I gained exceptional insight into a range of subjects

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throughout. During the course, I learned a great deal about the inner workings of computer hardware, software, networks, and web applications. I started to apply the practices I learned for secure web applications to my own websites, such as password hashing and CSRF prevention systems.

I was one of a selection of 8 of the top performing students in this course, 4 males and 4 females, who were selected to take part in the “Future Cyber Security Leaders” student exchange program to the United States of America.

During the program, among many places, I visited the Department of Homeland Security for a presentation given by staff working at the Executive Office of the US President, such as **Jaisha Wray**, the **Director for International Cyber Policy, National Security Council**. During this meeting, we were educated about the current state of Cyber Security in the United States and United Kingdom, and the deficiency in the specialist workforce.

The real-life applications of Cyber Security that I applied at this exchange program caused me to pursue this subject with passion: I decided to become a **Computer Science Ambassador** for Loreto College, and organise several Cyber Security demonstrations at our Programming Club.

Hobbies and Interests

- I have been regularly practicing **Karate and MMA** for 5 hours a week for the past 5 years, gaining a **first degree black belt** in early 2018. This developed my discipline and confidence, and got me results: I have won several in-club sparring competitions. I still practice Karate and MMA to this day.
- As well as contributing to the Python Discord organisation, I also maintain many of my own repositories (39 to date). The projects that I maintain vary widely, ranging from command-line graphing tools to simple webscraper applications to web application stacks.
- Outside of the Python Discord administrative and mentor scheme, I have also helped out with beginner questions on Stack Overflow. My Stack Overflow profile can be viewed [here](#). I also regularly complete CodeWars katas, short programming challenges that increase by level in difficulty. My profile, and previous solutions, can be viewed [here](#).
- At my Sixth Form, I am currently a **Computer Science Ambassador**, and also am a part of the [Code Club](#) network, a network of volunteers who are available to assist schools in the area with setting up and maintaining a programming club.
- I regularly attend “Hackathon” events in Manchester, namely the “Hack Manchester Junior”. I have won several awards at these events from my submissions during the past year, such as “Best in Show”, “Best use of the Raspberry Pi” and “First place – Dunhumby challenge”.