

# SUBEEN REGMI

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## SUMMARY

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Currently a second-year student studying at the University of Bath with a strong passion and interest in all areas of computing. Seeking an opportunity to apply my strong problem-solving skills whilst collaborating with driven, like-minded individuals on meaningful and impactful projects.

## EDUCATION

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### University of Bath

*MComp (Hons) Computer Science*

Modules completed: Programming 1, Programming 2, Discrete Mathematics and Databases, Mathematics for computation, Artificial Intelligence 1, Computer Systems Architecture

Bath, Somerset

*Oct. 2023 – July 2028*

### Maiden Erlegh School

*A-Levels*

Computer Science (A\*), Mathematics (A\*), Further Mathematics (A)

Reading, Berkshire

*Sept. 2021 – June 2023*

## PROJECTS

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### Onefile | *Python, Flask, SQLite, Javascript, HTML, CSS, Docker*

- Developed a full-stack web application that allows users to share and download files
- Implemented a RESTful API with Flask and built the frontend using JavaScript, HTML, and CSS
- Created and configured a Dockerfile for easy deployment of the application
- Leveraged Pytest and GitHub Actions for a robust and reliable CI/CD pipeline

### NNF | *C++, GTest, CMake, Git*

- Created a neural network framework that simplifies the creation and training of neural nets
- Developed a robust tensor implementation with comprehensive test coverage using the Google Test framework
- Significantly improved performance by implementing efficient pointer arithmetic, resulting in up to a 16x speed enhancement
- Gained and applied expertise in the mathematical foundations of linear algebra and multivariable calculus

### speak2me | *C, Sockets, Make, Docker*

- Developed a client-server chatroom that supports audio and text messages
- Created a mini TUI library that allows for efficient rendering on a terminal display
- Used the ALSA library to enable audio messaging

### chugly | *Java, Android Studio, SQLite, Git*

- Collaborated with a team of nine to develop an Android app that helps users to track their drinking habits
- Developed the drink search function allowing users to search and add drinks onto their daily intake
- Integrated the Google Play Services Location API to find the nearest bars/pubs and accurately log the consumed drink based on location
- Implemented Agile practices including daily stand-ups and sprint planning to enhance the teams collaboration

### Pychain | *Python, Tkinter, Sockets, Git*

- Developed blockchain and wallet that allowed users to connect to a comprehensive peer-to-peer network to facilitate the mining and sending of the fictional currency "Pycoin"
- Designed and integrated a transaction verification mechanism to safeguard against unauthorized spending of Pycoin by users

### santux | *NASM x86 Assembly, Linux, Make, Docker*

- Created a small command line program that displays a random Christmas joke
- Integrated Make and Docker to allow for cross-program compatibility

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS, Java, NASM x86 Assembly

**Frameworks:** Flask

**Developer Tools:** Git, Docker, Vim, Linux, Docker, Make, CMake, GitHub Actions, Arduino

**Libraries:** NumPy, Matplotlib, SFML, Sockets, Tkinter