

SUBEEN REGMI

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EXPERIENCE

SparkLayer – B2B eCommerce platform

Bath, Somerset

Software Engineering Intern

June 2025 - Sept. 2025

- Designed and developed a rewrite of a data pipeline in Go, leveraging Google Cloud Tasks and Cloud Run, to synchronise pricing and customer data between Shopify and Brightpearl
- Replaced the legacy service and **improved the runtime performance by 42%**; enabling higher-frequency data syncs and is currently processing **100K+ product price updates and 10K+ customer records daily**
- Engineered a new set of RESTful APIs that allowed merchants to edit, view and export shopping lists, reducing user friction and **increasing product engagement by 13%**
- Developed a React component library which integrated with the Shopify's Polaris design system; enabling dashboard pages to be rendered directly within the Shopify admin and improving maintainability of UI components

EDUCATION

University of Bath

Bath, Somerset

MComp (Hons) Computer Science with professional placement

Oct. 2023 – July 2028

Artificial Intelligence, Computer Vision, Computer Graphics, Operating Systems & Embedded Systems, Programming, Functional Programming, Algorithms and Complexity, Discrete Mathematics and Databases

Maiden Erlegh School

Reading, Berkshire

A-Levels

Sept. 2021 – June 2023

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

PROJECTS

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 docker 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
- Implemented efficient pointer arithmetic, resulting in a **16x increase in runtime performance**

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 a 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 said currency

TECHNICAL SKILLS

Languages: Python, Go/Golang, C/C++, SQL (MySQL/Postgres), JavaScript, Typescript, HTML/CSS, Java, NASM x86 Assembly, Bash, Lua

Frameworks: Flask, React, Vue, Polaris, Gin, Tailwind CSS

Developer Tools: GCP, Git, Docker, Linux, Redis, Pulumi, Make, CMake, Github Workflows, Vim/Neovim, Arduino

Libraries: Lodash, NumPy, Matplotlib, SFML, Sockets, Tkinter, Jupyter