

BASKAR GOPINATH

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Education

National University of Singapore

August 2022 – May 2026

Bachelor of Computing (Honours) in Computer Science

Temasek Junior College

January 2018 – December 2019

GCSE A-Levels (BCM/E - AAA/A)

Relevant Coursework

- Data Structures
- Software Methodology
- Computer Organisation
- Relational Database
- Algorithms
- Computer Networks
- Discrete Structures
- Software Engineering

Experience

CyberSierra

January 2022 – August 2022

Software Engineer Intern

Singapore

- Leveraged Python and ClamAV for a script that scans files for viruses, enhancing cybersecurity.
- Led comprehensive product teardowns of insurtech offerings, identifying strengths and how they could be leveraged for CyberSierra.
- Assessed pre-release versions of CyberSierra's intelligence platform, delivering actionable feedback to enhance feature robustness and usability.

Projects

Personal Assistant | Java

February 2024

- Developed a Java-based personal assistant for managing tasks.
- It was inspired by the Java mascot Duke and incrementally introduces software engineering practices
- Features include task addition, listing, marking tasks as done, error handling, data persistence, and understanding dates
- Enhanced user interaction through CLI with provisions for future GUI integration using JavaFX.
- Demonstrated proficiency in Java, OOP, and JavaFX, alongside software development best practices.

Client Management Application for Personal Trainers | Java

March 2024

- Enhanced AddressBook-Level3 (AB3) to create a desktop client management application tailored for personal trainers, focusing on efficient client tracking.
- Led rigorous testing and error handling efforts to ensure application reliability, while also producing comprehensive user and developer documentation including UML diagrams.
- Streamlined the client management process for personal trainers, significantly improving data organization, accessibility, and user engagement within the application.

Discrete Event Simulators | Java

February 2022

- Used OOP principles to write software in Java that simulates a system with different events and states.
- Examples of events simulated includes banks and shops.
- The events occur at a particular time, and each event can alter the states of the system and may generate more events.

HTTP Server | Python

October 2023

- Implemented a TCP-based HTTP-like server that provides key-value store services.
- The server made use of a TCP socket interface and parsed and responded to client requests sequentially.

UDP Interface | Python

December 2023

- Created a reliable one-way chat program that sent messages over an unreliable UDP channel.
- The UDP channel may either corrupt or drop packets randomly but the program ensured packets were always delivered in order.

Certifications

DEV210x | Introduction to C++

April 2020

Technical Skills

Languages: Java, Python, C, C++, SQL, HTML, CSS

Technologies/Frameworks: Git