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

## Experience

**CyberSierra** · **January 2022 – August 2022**
*Software Engineer Intern* · *Singapore*

- Leveraged Python and ClamAV for a script that automates virus database updates and file scanning, enhancing cybersecurity.
- Demonstrated Python scripting and subprocess management skills, offering a straightforward method for users to verify file safety.
- 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 unrelaible 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
**Technologies/Frameworks**: Git