

Guruprasath Gopal

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EDUCATION

Singapore University of Technology and Design (SUTD)

Singapore

September 2021 – May 2025

- Bachelor of Engineering (Information Systems Technology and Design),
- Date of graduation: September 2025

WORK EXPERIENCES

Singapore University of Technology

Teaching Assistant (Intro to Python Programming)

November 2021 to Jan 2022

- Facilitated Python programming instruction, breaking down complex concepts and enhancing students' coding proficiency.
- Mentored students on coursework and projects, delivering clear explanations, actionable feedback, and additional practice materials.
- Coordinated IoT lab setup, installing and configuring Raspberry Pi, and resolving technical issues.

Primech A&P Pte Ltd

Software Engineer Intern (R&D Dept)

August 23 to January 24

- Enhanced the robots' dashboard by improving CRUD based API functionality and addressing authentication issues using JWT.
- Restructured the dashboard layout to improve the user interface.
- Rewrote and refactored JavaScript codebase for readability and maintainability.
- Integrated a feature allowing users to view robot task summaries on the dashboard.
- Supported the backend of a cloud-hosted service (Oracle Service Cloud), troubleshooting issues and enhancing functionality.
- Addressed bugs in the python backend of an IoT-related platform for building sensor interaction using SmartClean sensors.

Software Engineer Intern (R&D Dept)

April 2024 to September 2024

- Updated and refactored a legacy Flutter codebase by replacing deprecated code, ensuring compatibility with the latest Flutter version.
- Collaborated on designing and developing a PHP based custom personnel management application tailored to a specific client's needs.
- Developed a promotional video for the company's robot, featured at the **CleanEnviro Summit Singapore (CESG)**, showcasing its key features and functionality for a global audience.
- Improved project maintainability by adding comprehensive documentation to a legacy codebase, covering API usage, architecture overview, and inline comments.

ADDITIONAL INFORMATION

HealthMate (Fitness Tracking App)

A comprehensive fitness application facilitating calorie tracking and seamless activity syncing from **Google Fitness**.

Developed using **Java** for the backend and integrated **Firebase** for efficient data storage and management.

InvoiceHub

Full stack application that uses **AWS OCR** to extract information from convenience store receipts and store it in **MySQL** database.

User Story, **Agile** methodology, **Figma** for lo-fi framework and hi-fi mockup prototype for user experience testing with client

3D Angry Bird Space

Computer graphic cube physics simulation game on **OpenGL** using self-built **C++** physics engine.

Atari Breakout

2D Breakout game made using **C** and **SDL2** game library

Aircon Balance Bot

Developed Python bots using web scraping techniques to simplify checking university aircon balances using BeautifulSoup, Selenium libraries.

Skills

Front-End: HTML, CSS, JavaScript, React, TypeScript, Next.js, Tailwind

Back-End: Node.js, Express, MongoDB, MySQL, GraphQL, Apollo

Languages: JavaScript, TypeScript, Python, Java, C++, C

DevOps & Tools: Git, Agile, Figma, AWS OCR, Firebase, Selenium