

# Kaveri Priya Putti

UNDERGRADUATE AT SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN

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## Work Experience

### Ascenda

Singapore

FULL-STACK DEVELOPER

May. 2022 - August. 2022

- Utilised the React on Rails framework powered by PostgreSQL to develop a backend loyalty points API and a web application.
- Adopted the Agile methodology and CI/CD to deploy both the frontend and the backend API as a course project with a company client.

### Entropica Labs

Singapore

ADVANCED COMPUTING INTERN (QUANTUM COMPUTING)

June. 2021 - Oct. 2021

- Developed a Julia optimisation library (JEPOS) based on physics inspired optimisation methods to run, test, deploy and benchmark classical and quantum optimisation algorithms.
- Designed and implemented optimisation solutions for BMW with JEPOS and quantum-inspired annealers.

### Deeksha

Bengaluru, India

DATA ANALYTICS INTERN

Jan. 2021 - March. 2021

- Built predictive modelling algorithms and dashboards for visualisation and analysis with Python for large-scale admission data.
- Deployed a Robotic Process Automation (RPA) system using UiPath and Orchestrator that significantly reduced manual workload in 25 campuses.

## Education

### Singapore University of Technology and Design

Singapore

BACHELOR OF ENGINEERING - BE, COMPUTER SCIENCE AND DESIGN (CSD), GPA: 4.43/5.0

2024

- President of the IEEE-SUTD Student Chapter, SUTD Honours and Research Programme (SHARP), Undergraduate Student Researcher (research projects in NLP, Quantum Computing and Cryptography), Secretary at Institute of Engineers (IES-SUTD) Student Chapter, Senior Director of Finance at Student Government (ROOT), Vice-President of SUTD Tennis

## Projects

### Stud-ify

Singapore

FULL-STACK DEVELOPER

Jan. 2022 - April. 2022

- Prototyped and built an Android app designed to make group studying more efficient and convenient on a virtual, collaborative platform.
- Implemented the frontend and backend of the app in Java and utilised Firebase to power the functionality of the app.

### Echo - Test Your Memory!

Singapore

FPGA DEVELOPER

Jan. 2022 - April. 2022

- Taught myself Lucid HDL and programmed a 16 bit ALU on Alchitry IDE and implemented auto/manual testing of the code on the Alchitry AU FPGA.
- Designed the data paths and finite state machine diagrams, implemented the core modules of the game in Lucid and developed it from scratch.

### Covid-19 Symptoms Scanner Web App

Singapore

DEVELOPER

Oct. 2021 - Dec. 2021

- Built an interactive web app in Python (powered by Flask) and integrated machine learning models for COVID-19 symptom predictions.

### ZiLGAM

Singapore

DEVELOPER

July. 2021 - Sept. 2021

- Built a Zilliqa application that uses seeds stored on non-fungible tokens to produce unique iterations of generative art and music.
- Developed a web interface for the Dapp on the Zilliqa blockchain and created generative scripts based on p5.js.

## Honors

2022 **Google Generation Scholar**, APAC Generation Google Scholarship (GGS): for women in Computer Science

2021 **Advanced Achievement - Best Score of 1353 participants**, IBM Quantum Challenge 2021

2021 **Certificate of Excellence - Quantum Machine Learning**, Qiskit Global Summer School 2021

2021 **Winner - Excellence Award**, ASEAN Geospatial Technology Challenge

Singapore

2020 **SUTD Undergraduate Merit Scholarship**, Singapore University of Technology and Design

Singapore

2018 **SGD 90,000 Global Citizen Scholarship**, Global Schools Foundation

Singapore

## Programming Skills

**Languages**, Python, Java, C++, Julia, Ruby, Javascript, Typescript, HTML/CSS, ReactJS, Lucid

**Relevant Softwares/Tools**, Git, VSCode, NPM, Android Studio, Postman, Firebase, PostgreSQL, Selenium

**Relevant Coursework**, Algorithms, Elements of Software Construction, Computer Systems Engineering, Computation Structures, Machine Learning, Networks, Parallel Computing, P2P Systems and Blockchain Technologies, Computer Graphics