

# Siyuan Cheng

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## EDUCATION

### National University of Singapore

Singapore

#### *Bachelor of Engineering in Computer Engineering (Honours)*

08/2020 - Present

- Cumulative GPA: 4.92 / 5.0 (top 1%)
- Relevant Coursework: Linear Algebra and Differential Equations, Probability and Statistics, Calculus, Signal and System, Database Systems, Data Structures, Operating Systems, Software Engineering, Computer Networks, Algorithms, Distributed Databases, Machine Learning, Parallel and Concurrent Programming
- Focus Area: Database Systems, Large-Scale Computing
- Programming Languages: Java, Python, JavaScript, TypeScript, C/C++, SQL
- Frameworks: Django, Spring Boot, React.js

## PROFESSIONAL EXPERIENCE

### BlackRock

Shanghai, China

#### *Incoming Technology Analyst Intern*

05/2023 – 08/2023

### PayPal

Singapore

#### *Software Engineer Intern*

08/2022 – 12/2022

- Designed and maintained a single web portal for engineers to find data of interest needed for issue analysis of PayPal accounts, which reduced 40% of live issues inflow requests; actively engaged with React.js and Node.js
- Set up the Jest framework for unit testing to increase the code coverage for the frontend code to 80%
- Added new metrics to monitor service health status and published inflow requests in case of db failure to increase robustness

### Garena

Singapore

#### *Backend Software Engineer Intern*

05/2022 - 08/2022

- Developed and maintained different payment channels for players to do in-game purchases and top-ups
- Developed a new proxy server to forward callbacks from payment channels to the correct testing environment
- Developed a new Kafka consumer for product managers to automatically process more than twenty add-whitelist-URLs-requests from the game development team per day
- Added a new feature of verifying the email address that receives payment receipts for Payment Center-Malaysia to prevent sending spam emails

### FaceSec

Singapore

#### *Backend Software Engineer Intern*

12/2021 - 03/2022

- Developed a people counting system for tenants to better understand the daily people flow, which has been deployed for more than 50 tenants island-wide; actively engaged with backend development with MySQL and Spring Boot
- Built a service bot for third-party social media applications such as WhatsApp and Messengers to send alert messages

### NUS School of Computing

Singapore

#### *Undergraduate Teaching Assistant*

08/2021 - Present

- Assisted in CS1010 Programming Methodology I (AY 21/22 semester 1), TIC1001 Introduction to Computing and Programming I (AY 22/23 semester 1), TIC2601 Database and Web Applications (AY 22/23 semester 1), and CS2113 Object Oriented Programming and Software Engineering (AY 22/23 semester 2) with 4.3 out of 5.0 teaching feedback
- Marked students' assignments, facilitated weekly labs/tutorials, and provided constructive comments for improvement

## PROJECT EXPERIENCE

### Computer Engineering Capstone Project

- Created a laser tag system that players can play AR shooting games by performing different hand actions
- Developed an AR phone application that the users look through to see the current game status

### CommIT Official Website

- Updated the tech stack of CommIT official website front end with React and Redux
- Developed the backend service and built an admin site to provide a simple way to modify the website contents

### SimpleDB

- Involved in a java-based database management system that provides storage management, query processing and optimization, transaction management, and recovery management