XIN ZHE

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EDUCATION

National University of Singapore (NUS), Singapore   **Aug 2019 – May 2023 (Expected)**

Bachelor of Computing (Hons) in Computer Science Courses with Minor in Statistics

- Cumulative Average Points: 4.60/5.00 (Expected Honors with Highest Distinction)
- Placed on Dean's List / Top Student for Software Engineering Project for AY2122 Semester 2
- Awarded NUS Science and Technology Merit Scholarship for academic achievements

Raffles Institution, Singapore   **Jan 2017 – Dec 2018**

- Achieved full Rank Points with 8 distinctions in Cambridge-Singapore GCE A-levels
- Attained Gold Medal in Singapore Mathematics Olympiad, Distinction Award in American/Australian Mathematics Competition

TECHNICAL SKILLS

- Programming Language: Proficient in Java, C++, Go; familiar with Python, JavaScript, HTML&CSS, Dart
- Frameworks / Tools: Familiar with Spring, Spring Boot, MongoDB, RPC, PostgreSQL, Titan, Flutter, Vue.js, Git, Cucumber

WORK EXPERIENCE

Backend Engineering Intern, TikTok, Singapore   **May 2022 – Present**

- Established end-to-end risk management workflows under microservice architecture with Go and internal messaging middleware for risks from multiple sources, largely improving business efficiency and generating an average monthly revenue of $30k
- Enhanced current risk process workflow engine by implementing new workflow stages, drastically expanding capability of current risk management platform
- Designed and revamped message configuration process to reduce coupling and fulfill business needs

Software Engineering Intern, Autodesk, Inc., Singapore   **May 2021 – Dec 2021**

- Developed a new multi-threaded transformer to process and aggregate 2 billion of production data for service projection with Java, Spring and PostgreSQL, enhancing data transformation performance by 30%
- Implemented new RESTful APIs for asynchronous job event handling and retrieve event result from Redis/Memcached
- Improved Cucumber tests in Java following BDD, and performed rigorous integration testing for new features

Teaching Assistant, National University of Singapore, Singapore   **Jan 2021 – May 2021**

- Conducted weekly lab sessions and consultations, and graded students' assignments for CS2030S (Java), focusing on OOP Design & Principles, Java generics, Functional and Asynchronous Programming Paradigm
- Received excellent teaching feedback (4.7 out of 5) and nominated for teaching awards

PROJECTS & COMPETITION

Static Parser Analyser | C++, Top Student In Software Engineering Project   **Jan 2022 – May 2022**

- Led a team of 6 students to develop a robust software system in C++ which parses code and performs queries with strict adherence to software engineering principles, placed among the top student in a class size of 248 students
- Designed and implemented query evaluation component by adopting various design patterns, and performed rigorous testing

FocusLab | Java / Android / OpenCV, Winner of Hackathon Hack&Roll 2021   **Jan 2021 – Jan 2021**

- Achieved Top 8 (No Ranking) in Hack&Roll 2021 out of more than 700 participants
- Developed an Android app in a team of 4 which identifies distracted users and pushes alerts to remind them to focus on work
- Devised and built face detection component with multi detectors in Java based on Haar Cascade algorithm and OpenCV library, improving accuracy of face detection by 70%

Nuudle | Java / JavaFX   **Sep 2020 – Nov 2020**

- Collaborated in a team of 5 to develop a user-friendly desktop application in Java which empowers clinic nurses to handle appointments efficiently, achieving a grade within top 20% of the cohort
- Implemented CRUD functionalities with focus on scalability and testability, and conducted extensive testing

Dayly | Flutter / Dart / Android / Firebase   **Apr 2020 – Jul 2020**

- Attained Artemis Level (Highest) certificate in NUS Orbital 2020 Program
- Developed a cross-platform app with Flutter and Firebase which combined Calendar, Module-Mapping and Leaderboard features to help students schedule daily activities
- Designed and implemented a priority-score based algorithm in Dart to automatically generate daily schedule for users

LEADERSHIP & EXTRA-CURRICULAR ACTIVITIES

Singapore Technology Director, Bridges for Enterprise, Singapore   **Sep 2020 – Present**

- Led a team of 5 associates to develop e-Commerce website features for client, boosting business sale by 20%
- Developed a WordPress Plugin and a Slack Application in PHP which leveraged Slack webhook to allow automatic bi-direction notifications between Slack and WordPress, increasing efficiency of internal communication portal