

Zhang Yangda

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Personal Statement

About Me

I pursued my high school education at National Junior College, where I explored deep into the science stream, nurturing a profound interest for physics and engineering. This passion led me to undertake a course in semiconductor physics and devices at Nanyang Technological University during my final year of high school—a course in which I earned a distinction. I am also passionate about exploring innovative technological solutions that contribute to environmental preservation and sustainability. This commitment was notably recognized when my team secured the second prize among fifty competitors in the National University of Singapore Project and Facilities Management Essay Prize 2020. Our proposal focused on developing a management system designed to support Singapore's ambition of achieving the objectives laid out in the Singapore Green Plan 2030.

Inspired by these experiences, I chose to major in Computer Engineering at the National University of Singapore, aiming to explore both the intricate details and broader applications of technology. Currently, I am in my junior year, transitioning into my penultimate year. I have also embarked on a second major in quantitative finance, motivated by a recognition of the critical role finance plays in shaping industry perspectives and the integration of technology within the financial sector. These academic pursuits, combined with my practical experiences, have equipped me with a robust understanding of both technical and financial aspects of technology-driven solutions.

Work Experience

My professional journey began with a front-end software engineering internship, focusing on the development life cycle of an Android app using agile methodologies to optimize productivity and efficiency. This role allowed me to delve into product design and code execution while gaining firsthand experience with version control and development frameworks within a collaborative team environment. Currently, as an information technology intern at Boston Scientific, I serve as a critical liaison between business needs and technical solutions. I am involved in Project Penguin - an innovative portal designed to streamline inventory management and facilitate order processing in partnership with an external software team. Additionally, I contribute to the Global List Price project, where I manage the meticulous processing and uploading of inventory datasets onto the SAP platform and perform rigorous user acceptance testing to ensure platform functionality and data accuracy.

These professional experiences have significantly honed my technical skills and enhanced my project management and strategic oversight capabilities. Alongside my professional endeavors, I engage in personal projects, including a notable initiative from the Summer Orbital Project. Together with my partner, we developed a website to promote food sharing among youths on campus, utilizing React, JavaScript, and Firebase. This project not only sharpened my technical abilities but also underscored my commitment to community-oriented solutions.

How I Can Contribute

With a solid foundation in software development and project management, I am confident that I can contribute to startups at the forefront of technological innovation. My experience in different development environments and management technologies will allow me to lead and innovate in projects integrating advanced technologies effectively. Additionally, I hope bring expertise in developing intelligent tools like artificial intelligence to enable wise decision-making and innovative products that reduce risks and promote sustainability.

My goal is to create a scalable, user-centric technology solutions that enhance user experience and foster efficient, sustainable practices. Through my contributions, I am committed to driving forward-thinking projects that align with the company's vision and objectives, ensuring that our technological solutions not only meet but exceed industry standards and expectations.

Education

Aug 2022 - Present	National University of Singapore <ul style="list-style-type: none">- Bachelor of Engineering (Honors) in Computer Engineering- Relevant modules enrolled: Data Structure and Algorithm, Software Engineering, Digital Design, Introduction to AI, Introduction to Quantitative Finance, Introduction to Machine Learning, Probability and Statistics	Singapore
Jan 2020 - Dec 2021	National Junior College <ul style="list-style-type: none">- Singapore-Cambridge General Certificate of Education Advanced Level	Singapore

Work Experience

May 2024 - Present	Boston Scientifics <i>IT Developer Intern</i> <ul style="list-style-type: none">• Facilitated communication between internal IT team and the external software development vendor• Translated high-levels business goals into detailed technical requirements• Developed APIs to connect SAP with Java backend Spring Boot, ensuring correct execution of the order purchase process.	Singapore
Jun 2023 - Aug 2023	Guangdong TianYiMa Information Industry Co.,Ltd. <i>Frontend Software Engineer</i> <ul style="list-style-type: none">• Contributed to the development of Wang Ge Tong, an Android App designed to centralize the local community center information for 400 thousand residents.• Developed a comprehensive dashboard with a team of five using React.js to facilitate community center communications including announcements, events, and bookings.• Conducted extensive JUnit testing, identifying and resolving issues to enhance functionality and user experience.	Guangdong , China
Mar 2022 - May 2022	Meituan <i>Supply Chain Assistant (Part-time)</i> <ul style="list-style-type: none">• Coordinate and manage food delivery in a district that covers half a million residents.	Guangdong , China

Scholastic Achievements/Extracurricular Activities

Aug 2023 - Present	National University of Singapore <ul style="list-style-type: none">- NUS College Table Tennis Team (Captain)- NUS College Club Welfare Team- NUS Weiqi Club (Varsity team)- Lanke Cup 2023 (Singapore Intra-University Weiqi Competition) Champion- NUS Science and Technology Scholarship	Singapore
Jan 2020 - Dec 2021	National Junior College <ul style="list-style-type: none">- Class Chairperson- Boarding School Program Leader- Table Tennis School Team- Cross Country- PRC-JM3 Scholarship	Singapore
Jan 2020 - Dec 2021	Children's Cancer Foundation <ul style="list-style-type: none">- Fundraising volunteer	Singapore

Skill Sets & Proficiency

Software	Microsoft Office	Proficient
	Davinci Resolve	Intermediate
	MATLAB	Intermediate
	Unity	Intermediate
	Stella Architect	Intermediate
	Fusion 360	Proficient
Programming	Java	Proficient
	C	Intermediate
	C++	Proficient
	Python	Proficient
	Pascal	Basic
	JavaScript	Proficient
	Dart	Intermediate
Database	MySQL	Basic
	AWS S3	Basic
CI / CD tools	Jenkins	Basic
Framework	Flutter	Basic
	React	Proficient
Server Management & Network	Server Setup/Maintenance	Basic
	Wireless Networking	Basic
	Kubernetes	Intermediate
Version Control	GitHub, GitLab	Proficient
Operating Systems	Linux	Intermediate
Hardware Design	Verilog	Proficient
	Circuit design	Proficient
Backend Services	Firebase	Proficient
Project Management	Jira	Proficient
Microcontroller-Based Systems	Arduino, Raspberry Pi, ROS, Integrated Circuit design	Proficient
Non-technical skills	Teamwork, Public Speaking, Report Writing	Proficient

Language Proficiency

Spoken	English – fluent; Mandarin – fluent, Cantonese – fluent, Teochew – fluent, Spanish – elementary
Written	English – competent; Chinese – competent, Spanish – elementary

Additional Information

Interests: Basketball, Table Tennis, Running, Football