

# DANIEL GUAN

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## EDUCATION

### NATIONAL UNIVERSITY OF SINGAPORE

Bachelor of Computing  
Double Major in Computer Science, and Business Administration

Singapore  
Expected Jul 2029

### RIVER VALLEY HIGH SCHOOL

GCE A-Level - Physics, Chemistry, Mathematics, Economics  
6 Distinctions; 90/90 RP

Singapore  
Jan 2017 - Dec 2022

## WORK EXPERIENCE

### HOME TEAM SCIENCE & TECHNOLOGY AGENCY

Data Analysis and Engineering Intern

Singapore  
Jan 2025 – Apr 2025

- Led data analysis and visualization with Python for XSENSOR pressure sensor data to compare comfort and fit of equipment in home team context; enhanced the safety protocol for officers carrying heavy loads close to 20kg
- Piloted the implementation of 3D-printed cooling electronics in bulletproof vests with Fusion 360; reduced heat gain of officers using bulletproof vests by more than 2x

### CUSTORY CO.

UI/UX Intern

Singapore  
Jul 2024 – Dec 2024

- Established a design system in Figma; integrating 20+ new features into the e-commerce platform
- Standardized typography, color schemes, and UI components, ensuring a cohesive design across all features
- Worked closely with developers to align front-end implementation with design guidelines, ensuring accurate translation of UI/UX elements

## PROJECTS

### LUMIN - MENTAL HEALTH APP

Jan 2025

- Designed and piloted a ground-up mental health app in the Singapore army
- Led communications between designers and programmers; prioritized and launched 10+ features for a pilot trial

### THERMACOOL - WATER COOLING WEARABLE

Oct 2024

- Drove the creation of a water-cooled wearable, reaching contact temperatures as low as 15°C to combat hot weather, over a period of 3 weeks in HacX, a hackathon by Home Team Science & Technology Agency (HTX)
- Achieved Finalist, Top 10 in HacX and subsequently awarded an internship to create further projects in HTX

### COLORUP - COLOR PALETTE STARTER KIT WEBSITE

Aug 2024

- Developed a highly responsive website that generates comprehensive sets of colors, colored scale, grey scale and utility colors based on the HSL color scheme, and easy to export for use in web-development projects with JSON format

### FINAPP - FINANCIAL LITERACY APP

Jan 2024

- Designed and piloted a financial literacy app for youths in Singapore
- Awarded \$50k grants in Youth Action Challenge Season 5 by National Youth Council
- Awarded Best Pitch in IdeasJam 2024 by Nanyang Technological University
- Awarded Top 6 in Pitch It! 2024 by Singapore Management University

## ADDITIONAL

**Technical Skills:** Proficient in Python (Pandas, Numpy, Scikitlearn, Seaborn), Javascript (React, Next, Tailwind), HTML/CSS, SQL, Fusion 360

**Languages:** Fluent in English, Chinese

**Certifications & Training:** Specialization in Investment Management with Python and Machine Learning by EDHEC Business School (Coursera), CS50 by Harvard University