

Elliot Phua

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Available for full-time internship **15 May 2025 – 05 Sep 2025**, and part-time internship: **06 Sep 2025 – 30 Apr 2026**

Education

Singapore University of Technology and Design (SUTD)

- Bachelor of Engineering in Computer Science and Design, Upper 2nd Class Honours
- Minor in Artificial Intelligence (AI)
- Singapore Chinese Chamber of Commerce Foundation (SCCCF) Scholarship Recipient

Singapore
Sep 2022 – May 2026

Work Experience

Activate Interactive Pte Ltd

Aug 2024 – Jan 2025

- **Software Engineering Intern**
- Proposed improvements to legacy Screening Registration System which facilitates Singapore's large-scale testing during outbreaks and pandemics situations. Implemented interfaces and string-utility functions through React, Redux in the frontend. Implemented RESTful CRUD using C#/.Net Core and Dapper in the Controller-Service-Repository pattern to query the SQL database.
- Unit testing was done using Jest and Moq. Jira and Confluence were used to facilitate Agile sprint. Assisted in code reviews using GitLab.

HomeTeam Science & Technology Agency (HTX)

May 2023 - Aug 2023

- **Robotic Process Automation (RPA) Intern**
- Developed RPA bots integrated with the company's Resource Booking System to assist with enterprise-wide reservation querying and automated messaging through UiPath Studio and Visual Basic (VBA). The RPA bots assist hundreds of colleagues in the reservations of office resources.
- Led the UX/UI website design of the company's digital tools repository portal using SharePoint, and directed the workflow documentations.

Joo Hee Transportation Pte Ltd

Feb 2022 - Jul 2022

- **Frontend Developer**
- Developed the desktop and mobile site to increase company's digital presence and customer accessibility, using HTML, CSS, & JavaScript, and managed the hosting platform
- Conceptualised and designed the User Experience (UX) of webpage for both desktop and mobile using Figma, and presented to management.

Vertical Institute Pte Ltd

Nov 2021 – Dec 2021

- **UX/UI Bootcamp Assistant Instructor**
- Recruited as Teaching Assistant out of 50 students after completing Vertical Institute's UX bootcamp and capstone project on designing an interactive stock tokenisation app prototype in Figma.
- Planned and taught the UX reiterative design process to two cohorts of 40 mid-career professionals transitioning to become UX designers.

Academic Projects

EnableID, Refugee Identity Management Web Application

May 2024 - Aug 2024

- Developed a digital identity management webapp through TDD/Agile, Next.js, Rails and PostgreSQL, deployed through Google Cloud Services.
- Implemented computer vision document scanner using OpenCV. Created an AI chatbot, implemented face recognition using AWS Rekognition API and end-to-end regression testing using Cucumber and Cypress.io. Developed backend API controllers and database models using Ruby on Rails.

Java E-Commerce Android App

Jan 2024 - Apr 2024

- Created an Android e-commerce app to facilitate bulk-buying for over thousands of students in SUTD, using Java and Firestore database, easing transactions and communications. Implemented OOP design patterns in designing object classes.
- Won SUTD Most Outstanding InfoSys & Programming Project Award, and SingTel InfoSys & Programming Award, 3rd place.

Design Thinking & Innovation (SUTD 03.007)

Jan 2023 - Apr 2023

- Led a group of 4 teammates in innovating an interactive LED installation to revitalise a disused stairway through the integration of Arduino, programmable LEDs, sensors and configurable electronics. Used the microcontroller to allow user input devices to control configurable LED lights.

Computational Media (NUS NM2207)

Nov 2021 - Dec 2021

- Created a platformer game about constellations and a local network chat room and doodle-board using JavaScript, NodeJS, RaphaelJS, HTML, CSS.

Programming Methodology in C (NUS CS1010)

Jan 2021 - Apr 2021

- Applied knowledge of Data Structures, Pointers, Arrays, Search/Sort Algorithms, Memory Management, File Processing, Unix Command Line.

Co-curricular Projects & Achievements

Supervised Machine Learning: Regression and Classification, DeepLearning.ai

Oct 2024 - Nov 2024

- Completed course on supervised machine learning and learned tools such as NumPy, Pandas and Scikit-learn.

Accenture University Innovation Challenge, Top 6 Finalist

Dec 2023 - Jan 2024

- Competed as a Top 6 Finalist out of over 120 teams, pitched a Gen-AI Health Companion product developed from thorough market and user analysis.
- Proposed personalised services such as measuring and tracking vitals, food place recommendations, and healthcare provider record syncing.

SUTD Night & Arts Fiesta, Deco & Installation Subcommittee, SUTD Student Service Award 2024

Jun 2023 - Feb 2024

- Organised SUTD's Open House and Night Fiesta, fabricated electronic light installations and holographic projections which reached thousands of public and student visitors. A 3D model loader app was developed using Three.js and integrated in a Raspberry Pi (RPI) using RFID modules and electronics.

Tech For Good 2023 (Engineering Good x Muscular Dystrophy Association of Singapore)

May 2023 - Oct 2023

- Prototyped assistive tech to help members of MDAS create paintings through hacking a 3D-printer, Arduino, Python scripting to control input devices.

2nd Place ZJU-SUTD Programming Contest 2023 (Junior Category)

Jan 2023 - Jan 2023

- Won 2nd place in the contest's junior category among 36 participants in SUTD, competed using Python.

Full Web Development Course, AppBrewery | Udemy

Aug 2021 - Dec 2021

- Learnt MongoDB, Express.JS, React, Node.JS (MERN) stack and created projects such as a blogsite using MongoDB as database.

Skills

Technical Skills: MongoDB, Express, Node, React, Next.js, PostgreSQL, JavaScript, Java, Python, C, Unix Command Line, Git, Robotic Process Automation, Arduino, Electronics, OOP, Android Development, Firebase, Regex, Unit Testing, Cypress, Ruby on Rails, C#/.Net Core, Jest, Moq, OpenCV.

Others: Double-Diamond process, UML, Algorithms, Data Structures, Agile Methodology, Collaborative Teamwork, Project Management, Presentation Skills, Communication, Leadership, Supervised Machine Learning, Test-Driven Development (TDD), UX/UI, CI/CD Pipeline, Jira, Confluence, GitLab.