Elliot Phua

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Available for part-time internship **06 Jan 2025 – 30 Apr 2025**, and full-time internship **01 May 2025 - 01 Sept 2025**

Education

Singapore University of Technology and Design (SUTD)	**Singapore**

- Bachelor of Engineering (Computer Science and Design), Honours. Graduating May 2026 — **Sep 2022 – Present**
- Singapore Chinese Chamber of Commerce Foundation (SCCCF) Scholarship Recipient

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 through React, Redux in the frontend. While RESTful CRUD APIs were implemented in the backend using C#/.Net Core and Dapper to query the Azure SQL database. Unit testing was done using Jest and Moq. Jira and Confluence were used to faciliatate Agile sprint.

HomeTeam Science & Technology Agency (HTX), xCloud Enterprise — **May 2023 - Aug 2023**
- **Web Developer & 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 staff members in coordinating the reservations of office resources.
- Led the UX/UI website design of the company's digital tools repository portal using SharePoint, and created the design library documentations.

Joo Hee Transportation — **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 — **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, using Figma, Miro, and inculcated concepts such as Double Diamond, accessibility, and human interaction design.

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 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, joystick and 3D-printed modules.

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**
- Self-learnt MERN stack and created projects such as a blogsite using MongoDB as database.

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, AI chatbot, AWS Reckognition face matching, end-to-end regression testing, backend controllers and database models.

Java E-Commerce Android App — **Jan 2024 - Apr 2024**
- Won SUTD Most Outstanding InfoSys & Programming Project Award, and SingTel InfoSys & Programming Award, 3rd place.
- Created an e-commerce app to facilitate bulk-buying for over thousands of students in SUTD, using Java and Firestore database, easing transactions and communications. The app has since been acquired by SUTD.

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, C++, programmable LEDs, sensors and configurable electronics.

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.

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.