Eldon Lim Kai Jie

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EDUCATION

NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE   **Aug 2023 – May 2027 (Expected)**
Bachelor of Engineering, Computer Science with 2nd Major in Business
- Honours (Distinction), Current CGPA: 4.23/5
- Relevant Coursework – Data Structures and Algorithms, Data Science and Artificial Intelligence, Object Oriented Design & Programming, Software Engineering, Database Management

WORK EXPERIENCE

Software Engineer Intern   **May 2025 – Dec 2025 (ongoing)**
SGTraDex, Singapore
- Work mainly on the backend development for the WSG Platform, a system designed to streamline coordination between Workforce Singapore (WSG), WSS, and partner companies, acting as a digital bridge for job support processes.
- Designed and implemented secure RESTful API endpoints using TypeScript and Next.js, with custom middleware for authentication and access control, ensuring data privacy and system integrity.
- Created and optimized relational database models with Prisma ORM and PostgreSQL, supporting scalable and efficient data management across multiple user roles.
- Contributed to frontend development using Next.js, ensuring a cohesive and responsive user interface experience.

AI Chatbot Developer   **Sep 2024 – Feb 2025**
MSD, Singapore
- Developed an advanced AI chatbot solution leveraging Python and Retrieval-Augmented Generation (RAG) methodology.
- Managed tasks using Agile methodologies and Jira boards, ensuring efficient project execution.
- Designed and implemented a robust vector database to optimize data retrieval processes.
- Achieved an 80% accuracy rate and presented the AI chatbot solution to stakeholders.

AI Chatbot Developer   **Aug 2024 – Dec 2024**
Nanyang Technological University, Singapore
- Constructed an LLM-based chatbot application to evaluate the accuracy of another LLM system in answering curated questions related to NTU policies.
- Implemented advanced techniques such as Retrieval-Augmented Generation (RAG), LangChain, and Large Language Models (LLMs) to enhance chatbot performance and reliability.
- Established a scoring mechanism to assess and improve the response quality of the chatbot, ensuring accurate and relevant answers to staff queries.

Research Assistant   **May 2024 – Aug 2024**
Nanyang Technological University, Singapore
- Implemented an innovative exercise for students to mine Google reviews using Python Selenium.
- Created a script to scrape reviews and analyze them with Excel tools and sentiment analysis techniques.
- Produced a comprehensive technical guide to enable students to replicate the process independently.

ACHIEVEMENTS

NTU Multidisciplinary Team (MDT) Fund – $10,000 Awarded   **May 2025**
- Secured $10,000 MDT fund by pitching against NTU students, alumni, and staff.
- Led development of an edtech app aimed at making studying immersive and addictive like social media.
- Coordinated with team members and freelancers by communicating specifications, managing expectations, and ensuring timely deliverables.
- Conducted user and market research, facilitated design sprints, and led ideation workshops.
- Collaborated with NTU faculty and startup mentors to validate concept and prepare investor pitch.
- Received strong feedback for novelty and potential social impact, strengthening entrepreneurial leadership.
- Responsible in frontend and backend integration using Flutter, Firebase, and PostgreSQL.

NTUpreneur GET Innovation Grant – $5,000 Awarded   **May 2025**
- Awarded $5,000 innovation grant through NTU's Growing Entrepreneurial Talents (GET) program.
- Led proposal and vision for a startup gamifying study motivation using behavioral design principles.
- Coordinated with mentors, business advisors, and technical teammates to refine prototype and business model.
- Oversaw budgeting, resource planning, and development milestones for project execution.
- Gained experience turning ideas into actionable roadmaps and building early user traction.

NUS Hack&Roll – Top 9 Winner   **Jan 2025**
- Developed an innovative gamified study app enabling seamless interaction between users across different devices.
- Led frontend development (70%) using Flutter, designing an intuitive and responsive user interface.
- Designed and implemented the entire backend architecture using Firebase, ensuring scalability and reliability.
- Integrated real-time data synchronization and cross-platform compatibility using Firebase backend solutions.
- Delivered a compelling pitch to a panel of 10 judges, receiving positive feedback for creativity and execution.

PROJECT WORK

Job Application Tracker   **Dec 2024**
- Deployed a Chrome extension using HTML, CSS and JavaScript that automates job application tracking with a single click, streamlining the job search process.
- Built and implemented a REST API using Python and Flask, integrated with the Google Sheets API to append data to a personalized job tracking sheet.
- Exposed backend endpoints to the internet using a Cloudflare Tunnel running from a local server, enabling secure external access during development and early testing phases.
- Designed a Firebase database to manage user-specific data securely and efficiently across multiple users.
- Delivered a production-ready product using the Waitress package for concurrent request handling, enabling seamless usage by multiple users simultaneously.

App Development for National Cash Flow Competition 2025   **July 2024 – Dec 2024**
- Developed a financial board game application using Flutter for the National Cash Flow Competition 2025, aiming to promote financial literacy among 800 students across Singapore in a fun and engaging way.
- Collaborated with a team of 3 students to brainstorm and design the overall structure and user experience of the application.
- Designed key features of the app, focusing on gameplay mechanics, user interface, and financial concepts, utilizing Flutter to ensure cross-platform compatibility.

Hospital Management System (OOP)   **Oct 2024 – Nov 2024**
- Built a hospital management system simulation using Java, adhering to the MVC (Model-View-Controller) architecture and SOLID design principles.
- Designed role-specific interfaces for patients, doctors, administrators, and pharmacists, enabling seamless user interactions.
- Designed the system to simulate real-world hospital operations, enhancing functionality and user experience through robust object-oriented programming techniques.

Work Study Scheme Data Scraping and Telegram Notification   **June 2024**
- Used Python to scrape data from NTU school's intranet to monitor new job postings in the Work Study Scheme portal.
- Developed a Telegram bot to send notifications directly to my Telegram account when new jobs are available.
- Automated the job search process, reducing the need to log in and check for updates manually.

LEADERSHIP EXPERIENCES / CO-CURRICULAR ACTIVITIES / COMMUNITY SERVICES

NTU Interactive Investment Club   **Aug 2024 – July 2025**
Software Developer
- Worked with a diverse team and organizing committee to translate competition goals into engaging digital features.
- Gathered and applied user feedback to enhance gameplay mechanics, interface design, and educational effectiveness.
- Successfully deployed the app for the live competition, which ran smoothly and received positive feedback from both participants and event organizers.

NTU Rotaract Club   **Aug 2023 – May 2024**
Professional Development Division, Sub-committee
- Gathered and applied user feedback to enhance gameplay mechanics, interface design, and educational effectiveness.
- Volunteered for the Brickland Achievers' Club to School program to support and motivate low-income primary students in their education.
- Supported the planning and hosting of career talks aimed at enhancing professional awareness among NTU students.

SKILLS & INTERESTS

- **Languages**: Fluent in Spoken English, Mandarin, Malay; Competent in Written English, Mandarin, Malay
- **Programming**: Python, C, HTML, CSS, Java, JavaScript, SQL, Dart (Flutter), TypeScript
- **Web & App Development**: React, Next.js, Vite, Node.js, Flutter
- **Libraries and Frameworks**: Flask, NumPy, Pandas, Matplotlib, LangChain, Selenium
- **Database & Storage**: PostgreSQL, Firebase, ChromaDB, Vector Stores
- **Tools & Technologies**: Docker, Google Cloud Run, Cloudflare Tunnel, Git, Jira, Clickup
- **Interests**: Participating in hackathons; Volunteering at charity events and non-profit organizations; Badminton