Lenson Lim

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EDUCATION

Nanyang Technological University, Singapore   Aug 2021 – May 2025
Double Degree Programme

Bachelor of Engineering in Computer Science
- Relevant Coursework: Data Structures and Algorithms (C Programming), Object Oriented Programming Design and Programming (Java & C++), Database System Principles, Machine Learning & Artificial Intelligence (Python, scikit-learn), Neural Network & Deep Learning (Pandas, Tensorflow), Distributed Systems, Cloud Computing

Bachelor of Business (Specialisation in Business Analytics)
- Relevant Coursework: Database Design and Development (MySQL & MongoDB), Advance Visual & Predictive Techniques in R, Financial Services Processes & Analytics

WORK EXPERIENCE

Software Engineer Intern, *GovTech Government Digital Services (GDS)*   Jan 2024 - Current
- Actively contributing to tracks utilizing **Node.js, React.js** in **Typescript**, **MySQL, Redis & AWS Services.**
- Developing a **Command Line Interface (CLI) tool** to automate the initialisation, building, resolving dependencies and running process for developers to significantly improve project setup time using **Node.js** with **Typescript.**
- Documented internal authentication and authorization services which utilise **OpenID Connect, OAuth2** and **SAML** Protocols**.**

Business Analyst Assistant Intern, *ABR Holdings*   May 2022 - July 2022
- Developed a framework to **consolidate 9 isolated data sources** into a Redshift warehouse integrated with **Periscope** to automated and serve in-depth data analysis for various needs.
- Implemented an extraction, transformation, and loading (ETL) data pipeline with **python** and automated it with **Airflow** using workflows, eliminating the need for daily manual execution of pipelines.
- Refined dashboards and conceptualized storyboards using **Tableau**, enhancing business development efforts and identifying key focus areas for informed decision-making.

Software Engineer Intern, *TalariaX Pte Ltd*   Jan 2021 – Apr 2021
- Designed and implemented a comprehensive chatbot admin panel with **React.js**, including a drag-and-drop chatbot builder, chatbot training section, and dashboard for chatbot flow stories.
- Developed chatbot APIs using **Node.js** & **Express** to handle CRUD operations and manage conversation flows.

SKILLS

Languages: Python, JavaScript, SQL, Rust, C, Java, Dart, NoSQL, HTML, CSS, R
Technologies: Nuxt.js, Vue.js, React.js, Node.js, Firebase (Firestore, Functions, Storage, Auth), Express, MySQL, Redis, Puppeteer, PostgreSQL, MongoDB, Flutter, Scikit-learn, Git, OpenAI, LangChain

COMPETITIONS & PROJECTS

NTU Stars - Timetable Planning Tool (Vue.js, Node.js, Puppeteer, Firebase) ⧉   May 2023
- Utilised a **serverless architecture** to develop services that scrape websites with **Puppeteer** and subsequently clean, format and store the scraped data in a cloud environment.
- Designed a user-centric website through storyboarding, stakeholder feedback and engagement, successfully garnering around **4000 visits** within a month.

DSTA CODE_EXP Mobile App Development Hackathon - Best MVP, 2nd Place ⧉   Jun 2022
- Developed a mobile application using **Flutter** and **Firebase** that enables users to donate and share army items with those staying near them.
- Utilised **Google Map APIs** and manipulated geohashes to approximate distance between users to match different users based on proximity.

Best Freshman Hacks - IEEE iNTUition v8.0 Hackathon - 1st Place, Freshman Track ⧉   Feb 2022
- Developed a resume builder telegram chatbot that requests inputs from users and an algorithm to automate the resume writing process, generating a professionally formatted resume in docx encoding.

Singapore Armed Forces (SAF) IPPT Mobile Application (C#, SQLite, Xamarin) ⧉   Mar 2020 - Aug 2020

- Initiated the development of an android mobile stopwatch using **Xamarin** to eliminate any need for expensive physical stopwatches in SAF and resolve the shortage of stopwatches.
- Consolidated needs of various stakeholders and analysed responses, gathering insights on crucial issues; translated to key components during development.
- Awarded National Servicemen (NSF) award of the year for demonstrating professionalism, leadership, exemplary conduct and contributing beyond my responsibilities during national service

CERTIFICATION

Google Project Management: Issued by Google ⧉   July 2023
- **Agile project managemen**t: Implementing Scrum events, building Scrum artifacts, and understanding Scrum roles.
- Development of project documentation and artifacts throughout the project lifecycle.
- Strategic communication, problem-solving, and stakeholder management through real-world scenarios.

AWARDS

NSF of the Year Award 2021: Issued by Ministry of Defence, Singapore (MINDEF)   Dec 2021
- The award is presented to outstanding NSFs who demonstrated professionalism, leadership and exemplary conduct during their National Service.