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 multiple tracks utilizing **Node.js**, **React.js** in **Typescript**, **MySQL** and **Redis**.
- Developing a Command Line Interface (CLI) tool to automate the initialisation, building 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 Protocol.

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, C, Java, Dart, SQL, NoSQL, HTML, CSS, R

Technologies: Nuxt.js, Vue.js, React.js, Node.js, Firebase (Firestore, Functions, Storage, Auth), Express, MySQL, Puppeteer, PostgreSQL, MongoDB, Flutter, Scikit-learn, Git, OpenAI, LangChain

COMPETITIONS & PROJECTS

Better Notes - Document Interaction Via Chat (Nuxt.js, OpenAl Api, LangChain, Pinecone)

July 2023

- Built a Software as a Service (SaaS) platform with Nuxt.js that enables users to upload documents and interact
 with information across multiple documents using OpenAl's LLM, ChatGPT
- Developed a serverless architecture using Firebase to encapsulate the complete business logic of BetterNotes.
 This includes responsive handling of document uploads for information extraction, generating embeddings and responses via LangChain using ChatGPT, and interacting with Pinecone's vector database.

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.

• 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 management: 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.