# Jensen Huang

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## Education

## National University of Singapore

Bachelor of Computing in Computer Science **Relevant Coursework:** Programming Methodology I and II, Data Structures and Algorithms

## EXPERIENCE

# **Central Provident Fund Board**

Software Engineer Intern

- Sentiment Analysis via AI/ML: Integrated LLMs and other Machine Learning models (via AWS Sagemaker) into workflow for increased accuracy when analysing customer call data (Llama3, Mistral 7b, BERT). Filtered out incoherent calls via LLM inference as well. Increased sentiment accuracy from 30% to 80%.
- FormSG Data Pipeline: Built a pipeline that handled data from FormSG. Data came from a webhook and was handled via Microsoft Azure. Ran LLM inference on it to determine if data needed to be further processed. Increased **process efficiency** by **100%** by removing any and all manual effort. Reduced **time spent** from a full day to zero.

## Tinkertanker

SWE/Curriculum Intern

- Product development: Developed a graphics driver for the Adafruit ssd1306 OLED panel for the BBC MicroBit platform in C++ and TypeScript
- Lesson/curriculum development: Prepared curriculum for lessons on AR/VR platforms, and the M5GO platform
- In-house scripts for Slack/Discord: Wrote Google Calendar notifications integration for Slack and Discord using Python, Slack API, Discord API

## Projects

## SSDCBookerBot |

- Full-stack App: Wrote a Telegram driving slot booking service for SSDC
- Scraping Microservice: Utilised Selenium as webscraper to obtain booking data and user info, saving it to a SQLite database
- Login System: Built a Telegram Native Web App to allow for seamless login, and implemented a payment system using **Stripe** API

• **Deployment**: **Dockerised** platform for quick deployment on any server and future scalability

## HashGen

- June 2024 • Keyword Detection: A webapp for a Tiktok hackathon, to detect keywords and objects in videos using Machine Learning and generate hashtags using Generative AI.
- Tech stack: Utilised OpenAI's CLIP model for image classification and WHISPER for audio classification, with Mistral as LLM. Frontend was built using React and Next.JS
- Team Direction: As Team Lead, headed a team of 5 students from NUS to delegate roles and tasks based on individual skills

## CS.JensenHshoots.com

- Website: Used React, Next.JS and TailwindCSS to build personal CS portfolio website. Linked at the top of page.
- Server-Side: Deployed site via Docker and Webpack. Set up full CI/CD workflow through Github. Setup with **Cloudflare**, configured DNS to point towards self-hosted NGINX reverse proxy
- Extension of: JensenHshoots.com, a photography portfolio site

## TECHNICAL SKILLS

Languages: Java, Python, C/C++, MySQL, SQLite, JavaScript, HTML/CSS, Bash Frameworks: React, Node.js, Next.JS, Tailwind CSS, Flask, Jinja, JUnit, WordPress, FastAPI Developer Tools: Git, Docker, Google Cloud Platform, WSL2, NGNIX, Apache2, WAMP, Firebase

Jul 2023 - 2027

May 2024 – Aug 2024

Singapore

Nov 2020 – Apr 2021

Jun 2023 - Dec 2023

Jun 2024 – Current