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EDUCATION

Nanyang Technological University(NTU), Singapore

Aug 2019 - May 2024(expected)

Bachelor of Engineering (Computer Science) - Expected Honours (Merit)

- Relevant Modules: Software Security, Machine Learning, Software Engineering

WORK EXPERIENCE

The Walt Disney Company

Jan 2024 – June 2024(expected)

Data Engineer and Marketing Tech Intern

Skills used: AWS, Python, Spark, Gitlab CI/CD, DevOps, Docker, Kubernetes, Nginx, ETL Scripting, SQL, Linux, CMS

- Leveraged AWS(Athena, Glue) for ETL scripting, utilizing Python and Spark for marketing data processing and analytics.
- Orchestrated robust CI/CD pipelines with GitLab, managing containerized applications using Docker, Kubernetes (EKS), and Nginx on AWS, ensuring optimal system performance and reliability.
- Developed widgets for Disney regional websites using JavaScript and jQuery to display movie showtimes

GovTech Singapore – Data Science and Artificial Intelligence Division

May 2023 - Dec 2023

Software Engineer Intern

Skills used: NextJS, TypeScript, Terraform, Gitlab, AWS, Python, Jira, Agile, CI/CD, Machine Learning, Privacy, Docker

- Engineered an advanced free-text and file anonymization solution deployed across 80 public sector agencies.
- Spearheaded product development using TypeScript, NextJS, Python and AWS services(Lambda, ECR, S3, etc)
- Optimized a PDF anonymizing process by implementing multithreading techniques, achieving an 80% acceleration in processing speed.
- Automated AWS infrastructure deployment and scaling using Terraform, aligning with DevOps principles to enhance CI/CD pipelines and streamline release processes.

FoodLine.sg Pte Ltd

Dec 2021 - May 2022

Full Stack Developer Intern

Skills used: HTML, CSS, JavaScript, jQuery, PHP, MySQL, Search Engine Optimisation

- Employed the LAMP (Linux, Apache, MySQL, PHP) stack to drive software development and maintain robust web applications; Improved page loading speeds by 100%.
- Pioneered backend and frontend features to accelerate the firm's strategic expansion into the Malaysian market by overhauling the codebase to support multiple countries and currencies.

PROJECTS

Sberbank Russian Housing Market Kaggle Machine Learning Competition

Nov 2023

Skills used: Python, Gradient Boosting, Hyperparameter Tuning, Imputation, Data Preprocessing, Feature Engineering

- Developed a predictive model for the Sberbank Russian Housing Market, leveraging Python, LightGBM, and Optuna, achieving high accuracy in housing price predictions.
- Fine-tuned hyperparameters using Optuna, significantly boosting performance, and conducted in-depth feature importance analysis to identify key factors influencing housing prices.

HackHarvard - Harvard University, Boston, Massachusetts

Oct 2022

Skills used: HTML, CSS, Bootstrap, JavaScript, PHP

- Led a team of 4 in developing an innovative productivity application that gamifies focus and concentration; Designed a token based virtual pet mechanism where users upgrade their virtual pet by maintaining uninterrupted work/study sessions and are rewarded with tradable tokens that can be used in-app

- Built the application using Vanilla HTML, CSS, JavaScript, and PHP, garnering significant appreciation from peers and event judges for our novel approach to enhancing work/study motivation.

Scuffed Tinder - UMD, College Park, Maryland

Nov 2022 - Dec 2022

Skills used: HTML, CSS, JavaScript, Node.js, Express, MongoDB, REST APIs

- Led a team of 3 in the development of a unique dating application that matches users based solely on shared interests, eliminating the reliance on pictures
- Integrated server-side JavaScript technologies, including Node.js and Express, with data persistence handled by MongoDB. Leveraged asynchronous JavaScript for real-time data handling; Designed a responsive user interface adapting to various screen sizes, ensuring a consistent user experience across devices.

SickGoWhere! - Software Engineering Project – NTU, Singapore

Apr 2021 - May 2021

Skills used: Java, Android Studio, Google Cloud Platform, Firebase, Firestore, Git, Material Design, XML

- Constructed an Android application enabling users to schedule appointments at CHAS clinics and integrated a chatbot for instant queries. Crafted the UI using Android Studio
- Led a team of 6 as the project leader; facilitated weekly meetings and managed project workflow using GitHub, ensuring timely code reviews and commit assessments
- Crafted a robust backend using Java, seamlessly integrated Google APIs, and ensured secure data storage via Firebase/Firestore

CO-CURRICULAR ACTIVITIES AND COMMUNITY SERVICE

NTU Halls Volleyball - Team Manager/Captain

Aug 2019 - Aug 2022

- Organized weekly training sessions and activities for club members.

NTU Outdoor Adventure Club - Subcommittee Programmer

Aug 2021 - Aug 2022

- Orchestrated a week-long camp for 70 attendees, overseeing logistics and programming.

Welfare Services Club (Elders) - Subcommittee Volunteer

Aug 2020 - Aug 2021

- Coordinated weekly E-volunteering sessions, as well as festive celebrations with Renci Hospital for the elderly.
- Facilitated on-campus volunteering events, preparing, and distributing hampers and handmade gifts for Renci Hospital residents.

SKILLS AND PROFICIENCIES

Languages: Fluent in English and Chinese, conversant in Japanese

Programming: Python, C, C#, C++, Java, Google Cloud, Unity, MySQL, Django, PostgreSQL, AWS, MongoDB, SQL, JavaScript, PHP, React, Solidity, Express, REST APIs, Flask, Selenium, Serverless Framework, Docker, NextJS, TypeScript, Terraform, Kubernetes, Spark

Interests: Hiking, Traveling, Music, Hackathons