

Bing Yu Yap

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EDUCATION

SINGAPORE MANAGEMENT UNIVERSITY

B(Sc) COMPUTER SCIENCE

School of Computing and Information Systems

Cum. GPA: 4.0+ / 4.0

COURSEWORK

- Database Systems
- Computer Hardware and Embedded Systems
- Statistical Thinking for Data Science
- Interactive Design and Prototyping

SKILLS

Experienced:

Java • Python • C
Ruby on Rails • Spring Boot • .NET
MySQL • PostgreSQL
Tableau • Matplotlib • Seaborn
Numpy • Pandas • Scikit-learn

Familiar

C# • Rust
GraphQL • Git
Keras • Tensorflow
Figma

CLUBS AND SOCIETIES

- Talent and Growth Director, SMU Business Intelligence and Analytics
- Senior Data Associate, SMU BIA Data Associate Programme
- SMU WhiteHats
- SMU BioMetrics

EXPERIENCE

SOLANA FM BACKEND ENGINEER INTERN

July 2021 – Present

- Solana.FM is the first Solana Blockchain Indexer.
- Designed and built a Hosted Service in .NET to publish message to **RabbitMQ** server.
- Optimized the Hosted Service's publishing efficiency by **3,000 slots per minute**.
- Optimized Indexer to improve the indexer efficiency by overhauling from Diesel to pure **Rust** and **Tokio-postgres**.
- Maintained **GraphQL** layer with **Node.js** unit testing.
- Tech Stack used: .NET Framework • Rust • RabbitMQ • Node.js • TypeScript

AFTERCLASS LEAD BACKEND ENGINEER

Feb 2021 – July 2021

- AfterClass.io is a web app used by **7000** students in college.
- Designed and built the web app from the ground up, including designing the **PostgresQL** database.
- Devised **authentication** and **authorization** feature with **JWT Refresh Token**.
- Built the professor and course review feature which which acquired **2,000+ users** and **5,000+ reviews** in the span of 2 weeks.
- Tech Stack used: Ruby on Rails • GraphQL • Python • Pandas

PROJECTS

SMU BIA DATA ASSOCIATE PROGRAMME DATA ASSOCIATE

Dec 2020 – April 2021

- Data Associate Programme is a specially focused programme for students who are interested in Data Analytics / Data Science. Project done for this programme: **Programming Language Classifier**
- Designed Web Scraper with **BeautifulSoup** to scrape programming languages and repositories on GitHub.
- Implemented **RandomForest** and **CatBoost** for the programming language detector. Achieved an accuracy of **0.97** through **KFold Cross Validation**.
- Implemented deep learning neural network - **LSTM** and **RNN** using **Tensorflow** and **Keras**. Achieved an accuracy of **0.984** through **KFold Cross Validation**.
- Deployed a **dockerized Streamlit** application that allows user to input code for language detection on **AWS EC2**.
- Tech Stack used: Python • Tensorflow • Keras • scikit-learn • Amazon EC2

TALKS AND WORKSHOPS

SMU BIA TALENT AND GROWTH TALENT AND GROWTH DIRECTOR

Apr 2021 – Present

- Organized a 5-week programme to facilitate the polishing and **deployment of the machine learning / deep learning models** built in 6th Data Associate Programme.
- Planned and conducted a workshop on **StreamLit deployment** for Machine Learning models using **AWS EC2** and **AWS Lambda**.