

WONG JING YUAN

Interests: Software Engineering, AI/ML

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EDUCATION

Fudan University

BSc. in Computer Science

Sep 2021 - Expected July 2025

Shanghai, China

- **Relevant coursework:** Machine Learning, Statistics & Probability, Linear Algebra, Data Structures & Algorithms, Data Mining, Object-Oriented Programming with C++, Database Systems, Software Engineering, Computer Graphics, Operating Systems.

WORK EXPERIENCE

Apple Inc.

Information Systems and Technology Internship Program

Shanghai, China

Apr 2024 - Present

- Developing internal facing software & services to solve technical issues and increase employee productivity.

DanXi: a third-party app for Fudan University students

Backend Developer Intern

Shanghai, China

Apr 2022 - Jul 2022

- Collaborated with backend team to design, develop, and deploy backend solutions using Python, FastAPI and Tortoise ORM.
- Engaged in continuous learning of tools and technologies, for example: Git, Docker, RabbitMQ & etc.

Malaysians in Fudan (MIF) Student Association

Vice President

Shanghai, China

Jan 2022 - Jan 2023

- Led council board in organizing events, including the 'MIF Data Processing Workshop 2022' and other outreach programs.
- Collaborated with Shopee to promote 'Shopee Code League 2022' within campus.

PROJECTS

JPMorgan Chase & Co. Quantitative Research Simulation Program

Link: <https://github.com/JinnyWong/JPMorgan-QR>

Nov 2023 - Feb 2024 (Completed)

- Analyzed & extrapolated data to predict future monthly natural gas prices.
- Created a prototype pricing model to price a commodity storage contract.
- Used dynamic programming to convert FICO scores into categorical data to predict defaults.

Jay's Coffee

Link: <https://jayscoffee.vercel.app>

Jan 2024 (Completed)

- Developed an e-commerce web application with authentication, CMS, sales dashboard & 3D map navigation features.
- Tech stack: TypeScript, Next.js, PostgreSQL, Prisma, Stripe API, Cloudinary API, MappedIn Web SDK, Vercel & etc.

Machine Learning course projects

Link: <https://github.com/JinnyWong/MachineLearning>

Sep 2023 - Nov 2023 (Completed)

- Applied K-Nearest Neighbors (KNN) algorithm to a dataset of wine characteristics, to classify them based on quality.
- Implemented Linear, Ridge & Lasso regression models to predict Boston house prices based on Kaggle dataset.
- Developed a Multilayer Perceptron (MLP) using PyTorch, to recognize handwritten digits in the MNIST dataset.

BVH Parser

Project Link: <https://github.com/JinnyWong/BVH>

Dec 2022 (Completed)

- Developed a parser that takes a .bv file and turns it into a .json file, as a project in the Data Structures course.
- Implemented efficient C++ algorithms and the *nlohmann library* for parsing and constructing BVH trees.

Y86 Emulator with GUI

Project Link: <https://github.com/JinnyWong/Y86>

Dec 2022 (Completed)

- Developed a functional Y86 instruction set emulator with GUI as a project in the Computer Systems course.
- Implemented the emulator in C++ and demonstrated proficiency in low-level programming and system-level understanding.

SKILLS

- **Full Stack Development:** HTML, Tailwind CSS, JavaScript, TypeScript, React, Next.js, PostgreSQL, MongoDB, Go
- **Data Science:** Python(Pandas, NumPy, Matplotlib, Seaborn, ScikitLearn, PyTorch, TensorFlow & etc.), C++
- **Math:** Linear Algebra, Statistics & Probability
- **Languages:** Chinese, English, Malay
- **Others:** LaTeX, Git, Linux, SSH, Docker, Agile project management

AWARDS

WorldQuant Challenge

Bronze Medal

Jan 2024

- Designed and tested alphas using fundamental, technical, cross-sectional & time-series analysis.
- Submitted 3 US stock alphas and 1 Chinese stock alpha, which scored over 4000 points.

Shanghai Municipal Government Scholarship

Type-B Scholarship Awardee

Sep 2021 - Present

- Won silver medal in Fudan University's International Students Badminton Game 2023.
- Won 2nd runner-up in AMSIB Challenge 2022: completed a cross-border business case study, devised an innovative business plan for an existing SME to digitalize their current business and operations.

CERTIFICATIONS

Generative AI with Large Language Models

Coursera: DeepLearning.AI, AWS

Ongoing

Data Analysis with Python

freeCodeCamp

Jan 2024

Intro to Deep Learning

Kaggle

Nov 2023