Fu Chen Sophomore student

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EDUCATION

The Chinese University of Hong Kong, Shenzhen, China   Sept 2022 - Jun 2026 (expected)
B.E. in Computer Science and Engineering (Artificial Intelligence Stream)   Cumulative GPA: 3.96/4.00

Core Courses (A grade): Machine Learning, Optimization, Probabilities, Linear Algebra, Advanced Linear Algebra, Calculus I/II; C/C++ Programming, Data Structures, Database System, etc.

Services: Undergraduate Student Teaching Fellow (USTF) for course Linear Algebra and Applications

National University of Singapore, Singapore   May 2024 - Sept 2024 (expected)
Undergraduate Research Opportunities Programme in Science (Summer Exchange)

Research title: Scalable method for inferring trees from pairwise distance methods (*Supervisor*: Prof. Louxin Zhang)

AWARDS

Academic Performance Scholarship, Class B   Sept 2023
Award to students with outstanding academic performance (<top 2%)
Huilong Tu Full Admission Scholarship   Sept 2022
Award to freshmen with excellent qualities.

ACADEMIC EXPERIENCE

Research Intern on Optimizing Bioinformatics Algorithms   Jul 2023 - Present
School of Data Science, the Chinese University of Hong Kong, Shenzhen   Shenzhen, China
Main contributor   Supervisor: Prof. Tianwei Yu

- Build up programming environment and adopt multiple programming languages such as Python and R
- Utilize machine learning techniques to optimize current algorithms by over 60%
- Organize complex biological data into 3 numerical datasets

PROJECTS

MNIST Handwritten Digit Classification   Nov 2023
Course Projects for C/C++ Programming and Machine Learning   Shenzhen, China

- Incorporated *Pytorch* convolutional neural network (CNN) and obtained over 97.5% accuracy
- Adopted *OpenCV* k-nearest neighbors (KNN) algorithm and obtained over 92.7% accuracy
- Developed a deep learning framework based on *numpy* and obtained over 90.0% accuracy

Arknights Simulator Database System   Apr 2024
Course Project for Database System (Group Project)   Shenzhen, China

- Designed a game database with 9 entities based on the underlying game logic
- Applied large language models to refine the database structure and queries
- Led 3 group members to implement over 200 database queries by MySQL

SKILLS

Language Chinese (native); English (fluent, GRE 319)
Software Proficient in Visual Studio, VS Code, Markdown editors, LaTeX editors, MS Excel
Programming Proficient in Python, C/C++, R and MySQL; Familiar with Java, Matlab, HTML, and VHDL