QI CHEN

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science   **Philadelphia, Pennsylvania**
Master of Computer and Information Technology, MCIT Online | GPA: 3.8 / 4.0   **2022**
Relevant Coursework: Data Structures & Software Design, Algorithms & Computation, Computer Systems Programming, Big Data Analytics, Networked Systems

Technical University of Munich TUM   **Munich, Germany**
Master of Science in Energy Efficient and Sustainable Building   **2015**

Tongji University   **Shanghai, China**
Bachelor of Engineering in Building Services, Energy and Environment   **2011**

TECHNICAL SKILLS

JAVA, Python, C++, JavaScript, Git, Angular, React, Spring Boot, SQL Database, TensorFlow, Pandas

TECHNICAL PROJECTS

BookHere Ecommerce ([Website](), [GitHub]())   **2022**
- Developed an ecommerce application using **JAVA Spring Boot**, implemented server-side **REST APIs** using **Spring Data** and **MySQL**
- Designed a single page front-end to integrate with back-end using **Angular**, hosted on **AWS**

PennSearch ([GitHub]()) | Team project for UPenn CIS 553 in group of 3   **2022**
- Designed and implemented a peer-to-peer search engine which runs over the **Chord** Distributed Hash Table using **C++**
- Improved search efficiency in Chord by implementing finger table

Earth Surface Temperature Prediction Model ([Blog Article]()) | Team project for UPenn CIS 545 in group of 3   **2021**
- Preprocessed and visualized global earth surface temperature datasets using **Pandas Python** library
- Built **ARIMA**, **Linear Regression** and **DNN** models using **TensorFlow** to predict temperature in 3 years, analyzed and compared the accuracies between different models

Covid-19 Tracker ([Website](), [GitHub]())   **2021**
- Built an interactive Dashboard using **Angular** which displays up to date COVID-19 statistics
- Created maps and graphs using **Google Chart API** to visualize geographical distribution and current trend of pandemic

Sorting Algorithm Visualizer ([Website](), [GitHub]())   **2020**
- Built a web application using **React** for visualizing sorting algorithms
- Implemented Bubble Sort, Insertion Sort, Selection Sort, Quick Sort, Heap Sort and Merge Sort

JAVA Snake Game ([GitHub]()) | Team project for UPenn CIT 591 in group of 3   **2019**
- Developed a classic snake game with 3 difficulty levels and an adorable UI using **JAVA Swing GUI**

PROFESSIONAL EXPERIENCE

EKG Engineering Office (An engineering firm specializing in energy renovation in buildings)   **Munich, Germany**
Building Energy Consultant   **2015 – 2017**
- Conducted and created thermal bridge assessment and building energy models for residential and commercial building projects.
- Generated reports for German KFW energy-efficient refurbishment program and energy performance certificate

CERTIFICATES & SOFT SKILLS

- AWS Certified Developer Associate
- Oracle Certified Associate, Java SE 8 Programmer
- Multilingual in English, Mandarin and German
- Expertise in Sustainable Development & Building Energy Standards