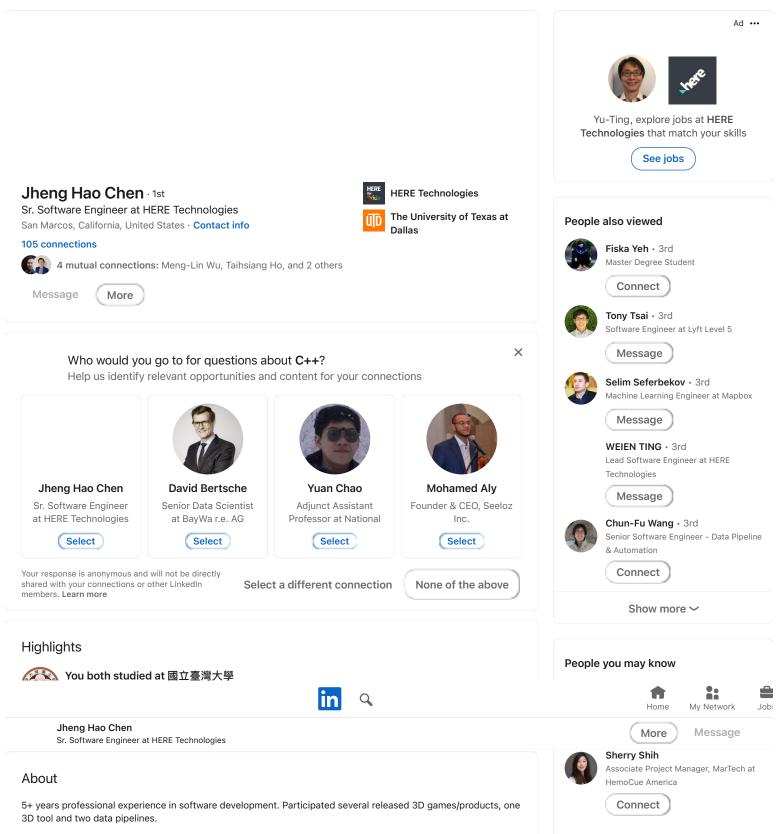
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Experience



Sr. Software Engineer

HERE Technologies · Full-time

Mar 2016 – Present · 5 yrs 4 mos

Greater San Diego Area

In a team of 3 software engineers to build a distributed event-driven pipeline to derive continuous lane boundaries of roads from observables extracted from vehicle sensor data.

- Built a pipeline on Apache Flink Stateful Functions and wrote Java code to receive upstream events, handle pipeline workflow and improve pipeline performance.
- Used Grizzly HTTP server framework to develop RESTful API of a job queue proxy server which can access AWS SQS to keep job workers not exposed to external networks; used Flask server framework to develop mock data store of observables for end-to-end testing.
- Wrote Dockerfiles to create docker images for pipeline subsystems; wrote Helm templates to generate Kubernetes deployment files; wrote bash scripts to automate dockerization and pipeline deployment to Kubernetes cluster; occasionally modified Gitlab CI/CD pipeline.

In a team of 5 software engineers to build a scalable pipeline to create 3D representation of the globe including roads, buildings, terrain meshes with cartographic information in Cesium format

- Responsible for developing a 3D tool in C++14 for map editors to visualize and edit roads, buildings and terrain surfaces; wrote semi-automatic or fully automatic operations to modify 3D geometries; wrote validations to catch abnormalities in 3D geometries caused by manual editing.
- Wrote Python code to query Digital Terrain Models (DTM) and cartographic data in pipeline; wrote C++14 code to clip DTM by cartographic geometries to generate terrain meshes with cartographic information.

see less

Senior Software Developer

International Games System · Full-time Nov 2010 – Jul 2013 · 2 yrs 9 mos Taipei City, Taiwan

- Led a team of 5 members to develop a web casino game in Unity3D. Responsible for writing visual effects, client side in-game logic and performance tuning.
- Developed an arcade racing game in C++03 on Linux, using open-source libraries for realtime rendering and physics simulation. Responsible for vehicle physics and vehicle attributes editor.

see less

Education



The University of Texas at Dallas

Master of Science (M.S.), Computer Science, 4.0 / 4.0 2013 – 2015



National Taiwan University

Master of Science (M.S.), Physics, 3.7 / 4.0

2005 – 2008



Jaelynn Hsiao

E-commerce Marketing Specialist, Market Research Analyst, Project

Connect



陳Chen立格 Li-Ger 垓恪 Gaiger

Senior Software Engineer at Topcon Healthcare Solutions

Connect



Po Yu Chen, PMP

CymMetrik Enterprise Co., Ltd. Account Manager

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National Cheng Kung University Bachelor of Science (B.S.), Physics 2001 - 2005

Skills

C++14

Computer Graphics

Distributed Systems

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Accomplishments

Courses

Advanced Computer Networks $\,\cdot\,$ Advanced Operating Systems $\,\cdot\,$ Big Data Management and Analytics • Computer Animation and Gaming • Computer Architecture • Computer Graphics • Computer Networks • Database Design • Design and Analysis of Computer Algorithms • Discrete Structures · Machine Learning (Audit) · Operating Systems Concepts · Real-Time Systems · Web **Programming Languages**

Interests



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NVIDIA

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WildTangent



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