Jiayuan Chen

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Education

Tongji University, Shanghai, China	*Sep 2017 - Jun 2021*

- BE in Civil Engineering
- Overall GPA: 4.21/5 or 87.1/100

Technion Summer School, Haifa, Israel	*Jul 2019 – Aug 2019*

- Course taken: Machine Learning (graduate level).
- Scored 89 (A) and received corresponding credits.

Awards& Honors

China Harbor Engineering Company Scholarship (2nd tier)	*Sep 2020*
Scholarship of Distinction (3rd tier)	*Sep 2019*
Third Prize of China Mechanics Competition in Honor of Zhou Peiyuan (Top 5%)	*Apr 2019*
China Construction, Eighth Engineering Bureau Scholarship	*Sep 2018*
Second Prize of Tongji International Construction Festival (Top 4 out of 62)	*Jun 2017*
Freshman Scholarship	*Sep 2016*

Professional Experience

Shanghai Landleaf Architectural Technology Co., Ltd, Shanghai	*Jan 2021 – Jul 2021*

Frontend Development Intern

- Our group is responsible for the development of a city-planning web project.
- My responsibilities include React and Redux components development as well as API design.

Shanghai Jinlu Construction (Group) Co., Ltd, Shanghai	*Jul 2020 – Aug 2020*

Construction Management Intern

- Responsibilities included examination of construction drawings, onsite survey and onsite management.

Academic Experience

Structural Damage Detection Based on Digital Twin and Machine Learning	*Feb 2021 – Jul 2021*

- This is my undergraduate final project. The objective was to establish a composite approach – both constitutive and data-driven, to detect structural damages of the Hall 10, Tokyo Institute of Technology

Anomalous Pattern Detection of a Real Bridge	*Jun 2020 – Aug 2020*

- Out selected problem of the IPC-SHM competition.
- Responsible for data cleansing, algorithms, code implementation and an English presentation.
- Our original algorithms could tell 7 different anomalous patterns with a weighted accuracy of more than 95%.

Hotel Management System Development	*May 2020 – Jul 2020*

- A hotel management system developed upon SQL. Server, ADO.Net and C#.
- Mainly responsible for the backend development - including database design, implementation and API design.

Onsite Helmet Detection	*Apr 2019 – Mar 2020*

- The project was developed upon Mask-RCNN network.
- Responsible for dataset constructing, network training and paper writing.
- The final algorithm could detect several helmeted (and non-helmeted) persons in a single image. The mAP was above 0.75.

Research Assistant	*Sep 2019 – Nov 2019*

- Responsible for stress-strain analysis, strain gauge arrangement, crack recording and photographing.
- The research focused on the fatigue performance research of steel dampers under earthquake influence.

Extracurricular Activity

Student Union of Tongji University, Shanghai	*Sep 2016 – Mar 2019*

Leader of the Department of Media and Information

- Led a department with more than 15 members.
- The mission was to run the official Wechat account Tongji Student Union (ID: tjsu1919), and to publish daily articles. It's the most prominent media in Tongji University. Daily views exceed 2000.
- Also responsible for the publicity of large-scale events, e.g., Anniversary celebrations of Tongji University.

Skills

Programming Languages: Java = Python = JavaScript > C/C++ > C#.

Software: AutoCAD, 3Ds Max, PKPM, ANSYS, Matlab, Photoshop, Premiere Pro.