

Yilun Zhou

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EDUCATION

MS in Computer Science, Georgia Institute of Technology, GA

Est. Dec/2024

- Major GPA: 3.6/4.0
- Relative Coursework: ML, ML for trading, Intro to Grad Algorithms, Intro to Info Security, Network Security, Software Dev Process, Computer Network.

MS in Data Science, Renmin University, Beijing

Jun/2021

MS in Geotechnical Engineering, University of Florida, FL

Jan/2017

TECHINICAL SKILLS

- **Languages:** Java, Python, JavaScript, C, C#, Git, C++, PHP, HTML, MATLAB, Latex
- **Framworks:** React, Node.js, JUnit, Django, WordPress
- **Develope Tools/library:** MangoDB, Android Studio, pytorch, Numpy, Unity, WireShark, Postman, Kali.
- **Certificates:** AWS Practitioner, AWS Solutions Architect Associate.

RELATED PROJECTS

Backend Development Related

- Developed an Android 12-based app named 'Job Comparison' to assist users in comparing job offers with benefits across different indicators. Built by Android Studio, SQL by DBeaver, UML by Lucidchart and Manage by Github. [Github Link](#).
- Developing a command-line utility 'txter' written in Java development kit. Built by Java, Test by TSLgenerator and JUnit, Manage by Github. [Github Link](#).

Machine Learning Related

Apr/2023

- Trading strategy based on ML. A entry level course-based project including Decision Tree Learner, Random Tree Learner, Bagging Learner and Q-Learner. Built by PyTorch.
- Housing price predict model based on Ames Housing dataset. Model using Linear regression, K-mean, DBScan, basic MLP and random forest. Built by TensorFlow [project-web](#)
- Coding different CNN/RNN nets by PyTorch. AlexNet, VGG-11, NIN, GoogleNet, ResNet, DenseNet; GRU, LSTM, bi-Rnn, deepRnn... Instruct by 'Dive into Deep Learning' by Mu Li.

Networks

Jan/2023

- Setup involved configuring IP, OSPF and BGP for routers and hosts. Implemented VPN configurations for secure communications, CLI and RPKI for enhance the security and authenticity of the routing information exchanged between ASes. Built by FRRouting software routing suite.

RESEARCH EXPERIENCE

- Research Assistant at [Center for Translational Research in Neuroimaging and Data Science](#), working for Dr. Sergey Plis for fMRI image learning. related project: [niivue](#), a WebGL2 based medical image viewer; [brainchop](#), 3D MRI neuroimaging viewer by web browser based deep learning model.
- Volunteer works in Cybersecurity group focusing on web security(Spring 24), focusing on web security, footprint detection.
- Teach Assistant for undergraduate courses 'Geotechnical Engineering' and 'Adv Soil Mechanics'(2015/2016, University of Florida);
- Research Assistant in Florida Department of Transportation (2016), focusing on saturate and unsaturated soil analysis.

WORK EXPERIENCE

Structural Researcher, **China Architecture Design & Research Group**, Beijing

Aug/2017 - Dec/2022

- Led a team of 3 engineers in digital simulation and parametric modeling for infrastructures. Successfully designed and executed plans for over 10 buildings including the No.17 Bobsleigh track recognized by International Olympic Committee. [Portfolio Highlights](#)
- Certification: Professional Engineer(China), Certificate of Digital Analysis, Securities Qualification Certificate.
- Took part into 10+ construction project; Achieved 8 structural design awards including 2 national constructional awards; 8 published articles and 1 published book(structural engineer); involved into 2 National Founded research projects and 2 Organization founded research projects;
- Scholarship: University of Florida Sports Scholarship, Beijing Jiaotong University Mao Yisheng scholarship
- Language Skills: English, Mandarin