

Zhanghao Chen

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EDUCATION

University of Illinois at Urbana-Champaign

Champaign, IL

Master of Computer Science; GPA: Pending

Aug 2019 – Dec 2020

Selected Coursework: Distributed Systems, Compiler Construction, Deep Learning.

New York University Shanghai

Shanghai, China

Bachelor of Science in Computer Science; GPA: 3.88 (overall), 3.98 (major)

Aug 2015 – May 2019

Selected Coursework: Object-Oriented Programming, Operating Systems, High Performance Machine Learning.

EXPERIENCE

Mesoor AI

Shanghai, China

Algorithm Engineer Intern

Feb 2019 - Apr 2019

- Implemented hierarchical keyword clustering for classifying keywords of resume project descriptions, generated over 100 categories of keywords with meaningful labels to assist HRs with resume screening.
- Carried out a research project on next career move prediction based on previous career path.

Quanyan Lab, New York University

New York, NY

Research Intern

Jun 2018 - Aug 2018

- Developed a seq2seq model to automatically generate restaurant reviews conditioned on the rating star and the type of restaurant, achieve the best BLEU score of 11.6.
- Open-sourced a PyTorch implementation of SeqGAN and received 25 stars on Github.

PROJECTS

3D Point Cloud Registration

Feb 2019 - May 2019

- Implemented a 4-way 3D point cloud registration pipeline with PCL with 1000 lines of C++ for an interactive media art project on 3D teleconferencing.
- Reduced the mean mismatching distance by 90% by testing different combinations of algorithms to find the optimal registration solution.

Online Air Ticket Reservation System

Nov 2018 - Dec 2018

- Built RESTful backend APIs with Flask with 1300 lines and maintained database system with MySQL.
- Applied Blueprint to factor application into multiple sections. Accomplished access control for three different roles.
- Visualized various query results such as spending history by intuitive charts using JavaScript.

Java to C++ Translator

Sep 2017 - Dec 2017

- Led a team of five to develop a translator from a restricted Java to C++, organized weekly meetings.
- Designed and implemented an intermediate representation to represent Java source code.
- Implemented virtual method table constructs to support dynamic dispatch.
- Implemented reference counting smart pointers for auto memory management.

Web-Based Multi-Client Instant Messenger

Mar 2016 - Apr 2016

- Implemented a multi-threaded HTTP server in Java sockets with 250 lines.
- Implemented in Java with 500 lines the backend of a web-based instant messenger supporting multi-client group chatting.

SKILLS

Programming Languages: Advanced: C/C++, Python; Intermediate: Java, Go; Novice: Scala

Tools & Frameworks: Git, Unix/Linux, Flask, MySQL, PyTorch, CUDA, MPI