Jiani WANG

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EDUCATION

Stanford University

M.S. in Computer Science

Palo Alto, CA, US
Sept. 2021 – June 2023 (Expected)

M.S. in Computer Science

Dune 2025 (Expected)

Tsinghua UniversityBachelor of Engineering

Beijing, China

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Sept. 2016 – July 2020

• GPA: 3.80/4.0 (Ranked 2/26); CS courses GPA: 3.82/4.0

WORK EXPERIENCE

ByteDance - Parent Company of TikTok

Beijing, China

Software Engineer (Full-time), System and Networking Department

July. 2020 - May. 2021

- Excellent New Employee Award: Granted "ByteDance Spot Bonus" Award because of excellent work contribution
- Datacenter Network Management System Development: Intent-Based Networking (IBN) System
 - * Systematically designed and implemented reliable software to automatically manipulate and monitor thousands of switches, including network status collecting, switches provisioning, fault replacement and routine status check
 - * Used and maintained IBN system in ByteDance's global datacenter to deploy 3k+ new switches and manage over 10k of switches' and routers' status using MySQL, caching collected real-time network status in Redis
 - * Reduced over 50% datacenter deployment time and automatically solved hundreds of networking status anomalies; Divided code into pluggable components and realized fast enabling and disabling in global datacenters
- Web application Development: A full-stack website for datacenter status visualization and statistics analysis
 - * Created a website with Vue.js and help users to query, operate and manage equipment in datacenter
 - * Implemented front-end display using JavaScript, CSS, HTML and developed back-end with Flask, MySQL, and Redis which can simultaneously handle multiple operations from users; Provided Restful APIs for front-end data display; Used Axios to make HTTP calls and enabled cross-origin requests by Nginx
 - * Built and maintained a visualization dashboard for networking status monitoring and statistic with Echarts, HTML and CSS that enables the whole System Department to provide assistant information in network fault diagnosis

Procter & Gamble Company, Data Modeling Group & Tsinghua University

Beijing, China

Research and Software Intern

Jan. 2018 - Dec. 2018

- · Application of visual semantic segmentation on large-scale realistic dataset of P&G consumers
 - * Applied state-of-the-art semantic segmentation method to a realistic consumers' teeth dataset to extract teeth feature and achieved high segmentation accuracy, which helped P&G to diagnose the effectiveness of P&G products
 - * Implemented several data normalization and data cleaning methods to eliminate the irregularity in realistic scene dataset and ensembled models to achieve mean IoU of 0.40

KEY SKILLS

- Languages: C/C++, Python (PyTorch), Java, JavaScript, SQL, Shell, Matlab, HTML, CSS
- Frameworks & Tools: MySQL, Redis, Vue.js, Flask, Django, Git, NGINX, Docker, GDB, CMake

SELECTED PROJECT

Android Application Development: An Information Release Platform of Student Activities

Sept. 2018 - Dec. 2018

- Designed and realized the Android Application and backend server named "iKnow", a product aiming at providing a platform for student organization to release activity information and advertise their activities
- Developed server-end software using Python; Implemented mobile application using Java and Android Studio

Multiple 3D Data Modality Fusion and Application in object recognition | Tsinghua University Sept. 2018 - Jan. 2019

- Introduced Hypergraph Convolution into multiple 3D data modalities fusion (including three modalities of 3D data: point cloud, multi-view and mesh) and achieved high robustness in ModelNet40 dataset
- Extended Hypergraph Convolutional Networks to a generalized version which can fuse different types of data, e.g., natural language and image data fusion of Weibo dataset and achieve high robustness