

JINGJING YE

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EDUCATION

M.S. Computer Science

Georgia Institute of Technology, Atlanta GA

August 2021 - May 2022

B.Eng. Electronic Information Engineering

ShanghaiTech University, Shanghai, China

September 2015 - June 2019

- **Core Courses:** Data Structures, Linear Algebra, Probability and Statistics, Computer Graphics, Artificial Intelligence, Software Engineering, Database and Data Mining, Machine learning, Intro to CV, Data Visualization

SKILLS

Programming Languages: Python, C#, Java, SQL, C++, Matlab, TypeScript, JavaScript

Development Tool-kits: Docker, Azure, Kubernetes, Maven, Mybatis, OpenCV, OpenGL, Cafe, PyTorch

Development Framework: .NET, Spring Boot, Angular, Django

WORKING EXPERIENCE

Microsoft — Software Engineer & DevOps Engineer — Shanghai

December 2020 - August 2021

Services for Microsoft Docs with C # and .NET Core .NET Framework

- Managed CI/CD process and test for services at **Devops**.
- Took own of Notification Service which sent email and event for other services. (**Azure, K8S, Swagger**).
Result: 0 Live Site Incident during my duty. **Upgraded** from .NET Core 3.0 to **.NET Core 5.0**
- Implemented **Service to Service authentication and authorization**. (**RBAC** –Role-based access control)
Result: Made service safer and easier to add authorization(by **AAD**–Azure Active Directory) for other services.
- Realized **MSI**(Managed identities) for Azure resources like **CosmosDB, Redis,Service Bus, EventHub etc.**
Result: Made the connection conform to newest security standard and the data at storage safer.

SAIC-General Motor — Software Engineer — Shanghai

July 2019 - December 2020

Vehicle sales platform with Java

- Designed data schema and to store cars and dealers' information at **Oracle**.
- Developed backend for the sales platform which used by dealers with **Java, Spring Boot, Maven, Mybatis**.
- Developed the frontend for the sales platform with **typescript and Angular**.
Result: 0 bug at UAT(User Acceptance Testing). Completed thirteen billion RMB order at the platform one year.
upgraded the dealer platform to **Angular 8.0**.

Yoke Intelligence — Software Engineer Intern — Shanghai

December 2018 - May 2019

Intelligent Monitoring system for COMAC (Commercial Aircraft Corporation of China) with Python

- Built the backend system to monitor realtime Heat map, workers' attendance etc. with **Django, Mysql**.
- Deployed and managed the service on COMAC factory's server with **Docker**.

Course TA — ShanghaiTech University — Shanghai

June 2019 - July 2019

Web Text Mining TA of Summer School

- Gave lab courses to students; Graded homework and final exam papers; Held Q&A session.

ACADEMIC PROJECTS

Cloth Simulation *Computer Graphics, C++*

Spring 2018

- Simulated cloth with **Mass-Spring Model**; Introduced force (gravity, wind force, elastic force) and collision (cloth-rigid body self-collision) into the system.
- Result: lively simulation of cloth blown by wind drop on rigid body

AI Air Traffic Control, *Artificial Intelligence, Python*

Spring 2018

- Built models according to CCAR-93TM-R5; Applied **Q-learning** algorithm to train model which can direct plane's approach.
- Result: Used real time approach situation at Chengdu ShuangLiu Airport in 24 hours to test our model; Every fight has landed successfully without collision or blockage.

AES Secure System Design, *Field Programmable Gate Array, VHDL*

Fall 2017

- Wrote a VHDL code to implement the functionality of AES (Input: 128 bit key and message);
- Optimized VHDL code to minimize the resources & Global Timing Constrains;
- Evaluation criteria: number of LUT(Look-Up-Table)FF(Flip Flop) ; Path Delay.

RESEARCH EXPERIENCE

FashionDeepBlue China, directed by Yilu Zhou, Agnes Kubia — Shanghai

June 2019 - April 2020

Tagging system online for cloth recognition (Typescript, python, Django, Postgresql)

- Developed backend with **Django** as framework, **Postgres** as database where pic information and tagging coordinate were stored.
- Designed and Implemented a Web UI using **Typescript** to allow area selection on clothes.

The Color AI Lab, USA, directed by Yilu ZHOU — Shanghai

August 2018 - January 2019

Extracted the main color of garment from runway pictures, predicted the future trend of color

- Completed Human **body recognition and portrait gouging**.
- Wrote Color clustering algorithm **K means** .
- Designed Skin color removal algorithm from scratch.
- Result: Released in trend analysis report of 2018 Shanghai fashion week (**Xinhua News Agency**)

PUBLICATIONS

- Finding Real-life Doppelgangers on Campus with MTCNN and CNN-based Face Recognition; Jingjing YE, Yilu ZHO
- Conference: The 18th Pre-ICIS Workshop on e-Business
- Content: Implemented MTCNN do the face recognition; Trained a face detection model with Softmax and Center Loss as loss function.; Extracted feature and got similarity of faces. Dataset: LFW. Frame: CAFFE.
- Application: Combine art and technology; Stimulate the society interest of CV ; Misuse of celebrity photos in online stores

AWARDS AND HONORS

Outstanding Individual of Annual Undergraduate Industry Practice , Shanghaitech University

2017

Honorable Mention, ICM(Interdisciplinary Contest In modeling) , Global

2017 2018