Jingjing Ye

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Education

M.S. Computer Science Machine Learning Track   *August 2021 - December 2022*
Georgia Institute of Technology, Atlanta GA

B.Eng. Electronic Information Engineering   *September 2015 - June 2019*
ShanghaiTech University, Shanghai, China

Working Experience

Microsoft — FTE — Redmond   *February 2023 - Now*
DCS(Data Classification Service) AKS migration and .Net 6 migration

- Using Add **Kubernetes and AKS tool** to improve the reliability and decrease latency. Migrating to .Net6 for more platform like **Linux**.

Georgia Tech — SocWeb Lab Student Assistant — Atlanta   *August 2022 - December 2022*
Leveraging Digital Physical Infrastructures to Assess Risk of Suicidal Ideation and Social Isolation on Campus with **IPRCE Emory**

- Using **semantic analysis** of Facebook posts, survey on GT students and track info to do **Time Series Forecasting** with **Pandas, sklearn, tsfresh...**.

Microsoft — Software Engineer Intern — Redmond   *May 2022 - August 2022*
Re-architected text classification part of DCS (Data classification server) from Azure cluster to Kubernetes.

- Developed a judgement gate for different environments and implemented the function to work in **Docker Containers,** which **improved reliability** and reduced **50% latency**.
- Designed and completed load balance through **DNS and Kubernetes load balancer** help us get lower total cost of ownership.

Microsoft — Software Engineer & DevOps Engineer — Shanghai   *January 2021 - August 2021*
Services for Microsoft Docs with C # and .NET Core .NET Framework

- Took ownership and do daily CI/CD for Notification Service which sends email and event for other services. **Zero live site** during my ownership. (**Azure, K8S, Swagger**)
- Realized **RBAC** (Role-based access control) and **MSI** (Managed identities) for Azure resources like CosmosDB, Redis, Service Bus, and EventHub to make our service use the **newest and safest authentication and authorization verification**.

General Motors — Software Engineer — Shanghai   *July 2019 - December 2020*
Vehicle sales platform with Java

- Developed backend of sales platform with **Spring Boot, Maven, Mybatis** and designed data schema under **Oracle** to provide dealers the **stable Java and RESTful web-services**. And meet the shopping festival requirement.
- Elaborated the frontend with **typescript** and upgraded it to **Angular 8.0** made the whole project lighter, faster and easier.

Yoke Intelligence — Software Engineer Intern — Shanghai   *December 2018 - May 2019*

- Built the backend system to monitor real-time Heat map and workers' attendance with **Django, MySQL**...

Course and Research Project

SocWeB Lab at Georgia Tech, directed by Dr. Munmun De Choudhury — USA   *Jan 2022 - Now*
Predict workers' performance and stress level through health data with Nokia Bell Lab

- Drew data standard distribution through **Pandas** and assigned data to different Quadrants by algorithm provided by Bell Lab.
- Calculated the feature correlation through **p-value and Pearson** and implemented different ML models like **DecisionTree, RandomForest, GradientBoosting** to predict.

FashionDeepBlue China, directed by Yilu Zhou, Agnes Kubia — Shanghai   *January 2019*
Tagging system online for cloth recognition (Typescript, Python, Django, PostgreSQL)

- Initiated backend with **Django, Postgres** as database. Implemented frontend with **Typescript** to frame out clothes. This system run for one year at the beginning of the company and used by dozens of student tagging helpers.

The Color AI Lab, USA, directed by Yilu ZHOU — New York   *August 2018 - January 2019*
Extracted the main color of garment from runway pictures, predicted the future trend of color

- Programmed the Color clustering algorithm: **K means ++** and designed **Skin color removal algorithm** from 'body scratch'.
- Released in trend analysis report of 2018 Shanghai fashion week (**Xinhua News Agency**).

Publications

- Finding Real-life Doppelgängers on Campus with MTCNN and CNN-based Face Recognition; Jingjing YE, Yilu ZHO
- 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**.

Awards and Honors

Outstanding Individual of Annual Undergraduate Industry Practice , ShanghaiTech University   *2017*

Honorable Mention, ICM(Interdisciplinary Contest In modeling) , Global   *2017 2018*

Skills

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

Tool-kits, Library, Framework: Caffe, Docker, Azure, Maven, Mybatis, KERAS, PyTorch, TensorFlow, .NET, Spring Boot, Angular, Vue, Django, Kubernetes, Kubctl, Pandas, sklearn, Tableau, SSH, Android development

Platforms: Linux, Windows, macOS