Xin Wang

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EDUCATION

New York University   New York, NY
Master of Science, Computer Engineering | GPA: 3.89   *Sept 2022 – May 2024*

Xinjiang University   Urumqi, China
Bachelor of Engineering, Software Engineering | GPA: 3.58   *Sept 2017 – Jun 2021*

RESEARCH EXPERIENCE

CNN Based Face Recognition System   Beijing, China
Team Member, Advisor: Dr.Shuai Jiao, Assistant Professor at Chinese Academy of Sciences   *Jul 2019 – Aug 2019*

- Proficiently preprocessed 1200 face images using Python and **OpenCV**, employing transformation techniques to yield a robust database of 4000+ cropped grayscale images.
- Developed a state-of-the-art **CNN** model with **Keras** in Python, meticulously trained it on the processed images, and conducted rigorous hyperparameter tuning using **GridSearch**. Achieved a remarkable 15% improvement in recognition accuracy, reaching an impressive 96.667%.
- Demonstrated proficiency in optimizing CNN architecture, showcasing problem-solving skills and a strong grasp of machine learning techniques to achieve exceptional results in facial recognition system development.

WORK EXPERIENCE

New York University   New York, NY
Grader for ECE-GY 6353 Internet Architecture & Protocols Lab   *Sep 2023 - Present*

- Served as a diligent grader for a prominent course at NYU, evaluating student assignments and providing constructive feedback to enhance their understanding and skills in the subject matter.
- Demonstrated strong communication and organizational skills as a grader, effectively collaborating with faculty to maintain grading consistency and ensuring fairness in the evaluation process.
- Contributed to the educational experience of students by offering valuable insights and guidance, fostering a positive learning environment, and supporting the overall academic objectives of the course.

iFLYTEK Co.,LTD.   Hefei, China
Junior Software Engineer   *Sept 2020 – Apr 2021*

- Developed an **Automated Deployment Tool** incorporating **FreeMarker** and **SpringBoot**, enabling test engineers to download required **yaml** configuration files based on scenarios, reduced 30% manual setup time.
- Increased stability by 26% for the *Video Analysis Platform* service that processes the data of 80 million users, by utilizing **Redis**, **Kafka** and **Elasticsearch** to generate and transmit vehicle flow statistics to **microservices**.
- Improved the development speed of *AI Knowledge Graph Platform* by 35% by refactoring the code with **SpringBoot** and **MyBatis** in **SpringMVC** framework.
- Saved 42% time spent on parameter verification and module package of *AI Knowledge Graph Platform* by introducing **POJO** extraction tool that simplifies the hierarchy of the objects.
- Reached 56% efficiency improvement of the *Shared Abilities Platform* that provides services of SDK or API callback, by dockerizing & optimizing the existing platforms that conditionally interact with.
- Created a web service using **Nginx**, created scripts to crawl the *Tongling City SuperBrain* online data with Python, cleansed and processed for analysis by **BeautifulSoup** with 60% less labor used.

Suncaper Data Co.,LTD.   Chengdu, China
Project Manager & Software Engineer   *Jun 2020 – Aug 2020*

- Led a team of 5 software developers and ensured the completeness of all works in each sprint by planning and following up with project status via **JIRA**.
- Conceptualized and implemented an E-Commerce Platform based on **SSM** architecture , ensured the fulfillment of comprehensive processes of shopping & item recommendations empowered with **Hadoop**, **Spark**.
- Constructed a **MySQL** database with **Power Designer**, using **Navicat** to create tables that prepared the data source for **MyBatis Generator** to generate **POJO** and **Example** instances for the initialization of the system.

PROJECT

Full Stack Voice Oriented Traffic Broadcast System

Independent Developer

- Adopted **React** and **Bootstrap** as the basic skeleton for the front-end development, and used **Nivo.js** to display 5 million traffic data summary on the admin dashboard.
- Integrated **XUI** from **GitHub** to repack **materialDesign**, and **EventBus** to decouple messages in Android end.
- Optimized HTTP interfaces by multiplexing **Retrofit** (a repackage of **OkHttp**), streamlining callbacks through annotations and significantly improving efficiency, resulting in a 40% reduction in response time.
- Achieved 59.9% uptime with the **SpringBoot** back-end service based on the **C/S** system architecture design and the **AWS** serverless cloud services for the solution deployment.
- Reduced quering time by 20% through adopting **SpringData JPA** as operation framework, and **Druid** as connector to access **MySQL** database.
- Incorporated **RegExp** match & keywords extraction algorithms to record and process traffic accident information optimizing data processing efficiency by 30%, and broadcasted the news in a uniform manner by **voice synthesis**.

Ctrip Travel Information Crawler and Data Visualization

Team Leader

- Built a web crawler with **Selenium** in Python to extract travel information from 10+ websites, scrapped headers & managed jump rules of web pages, obtained URLs and handled timeout or connection errors, incorporated parsing of Robots Exclusion Protocol to ensure a robust scrapping approach, improved result relevancy by 25%.
- Cleansed & processed the data with **BeautifulSoup** and saved the processed data in an Excel workbook & produced interactive data visualization with PivotTables & Charts and presented data-driven insights to the client leads.

SKILL

Languages: Java, JavaScript, C++, Python, SQL, HTML5, C#, Bash/Shell scripting
Frameworks/Libraries: React.js, NodeJs, SpringBoot, Kafka, Hadoop, Spark
Development Tools: Git, Jira, Docker, Kubernetes, Postman, PowerDesigner
Database: MySQL, MongoDB, Oracle Database, Redis, MinIO

HONORS & AWARDS

Outstanding Graduation Design (Thesis) | *XJU*	Jun 2021
Xinjiang Uygur Autonomous Region Encouragement Scholarship | *Top 3%*	Nov 2020
Merit Student | *XJU*	Oct 2020