YUFAN ZHANG

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EDUCATION

Cornell Tech, Cornell University   Aug 2023 − May 2025
Master of Science in Information Systems (Concentration: Connective Media)   New York, NY
• Merit-based Scholarship: 20,000 USD

Duke Kunshan University, Duke University   Aug 2019 − May 2023
Bachelor of Science in Data Science   Kunshan, China
• Cumulative GPA: 3.7/4.0 | CompSci Course GPA: 3.8/4.0

PROFESSIONAL EXPERIENCE

eBay Inc.   Mar 2023 − Jun 2023
Product Management Intern, Cloud Data & Storage (CDS)   Shanghai, China
• Maintained detailed documentation by leveraging custom **MkDocs** configurations and close collaboration with engineers, including user guides, API documentation and technical specifications, contributing a 24% boost in customer adoption of the new platform
• Facilitated migration of specific data messaging use cases by conducting user meetings, establishing clear plans and collaborating with the team, resulting in 3 high-impact use cases being migrated to the new product with more HA/DR capabilities
• Organized a BrownBag session on newly-released features, resulting in a 33% increase in feature awareness among customers

SciEcon CIC, NPO   Oct 2021 − Jan 2023
Interim Chair of Innovation and Creativity   Remote
• Conducted statistical and social network analysis with **Python (NetworkX, Pandas, Plotly)** on over 2 million transaction records from 6 popular DeFi protocols, resulting in a research product for cross-sectional comparison of decentralization levels in DeFi protocols
• Architected an ETL pipeline for querying Ethereum data and constructing real-time transaction graphs with **BigQuery on Kaggle**, **Ethereum ETL** and **Raphtory**, resulting in a 90% reduction in data ingestion time and faster research iterations
• Developed responsive static websites deployed on the **Inter Planetary File System (IPFS)** using **HTML5**/**CSS3**/**JavaScript**

SKILLS

• **Programming Languages:** Java, Python, C++, HTML/CSS/JavaScript
• **Software Development:** Spring Boot, Flask, Django, Vue.js, React.js, Git, Docker, Kubernetes, ArgoCD
• **Data Science:** Pandas, NumPy, MySQL, PostgreSQL, Scikit-Learn, XGBoost, PyTorch, Hadoop, Kafka, Spark, Flink

SELECTED PROJECTS

CosmicAPI: An API Management Tool for Developers | *Full-stack development, Java*   Jul 2023
• Divided the backend of the entire project into 5 sub-projects: web system, simulated interfaces, common modules, client SDK, and API gateway, utilizing **Maven** for multi-module dependency management and packaging
• Implemented flexible querying of MySQL database using QueryNrapper based on the **MyBatis Plus framework**
• Implemented **Spring Cloud Gateway** as the API gateway, enabling routing, access control, traffic shaping, and centralized handling of signature validation, and API usage statistics, enhancing security and facilitating system development and maintenance
• Developed a client SDK based on **Spring Boot Starter** to improve developer experience, reducing the high cost of API invocation by encapsulating the signature and using a single line of code for API calls

Jobrithm: ChatGPT-based Resume Writing Assistant | *Full-stack development, Django*   Jun 2023
• Developed a web platform using Vue.JS as the frontend and Node.JS as the backend for students to share course reviews and scheduling
• Designed and implemented the database schema using MongoDB to manage course information, schedules, user reviews
• Optimized the front-end performance and user experience by implementing lazy loading, code splitting, and caching, resulting in a 40% reduction in initial load times and a 20% increase in user engagement

Gallinula Course: Course & Faculty Evaluation Platform for Students ↗ | *Full-stack development, Node.js*   Mar 2023
• Developed a web platform using Vue.JS as the frontend and Node.JS as the backend for students to share course reviews
• Designed and implemented the database schema using MongoDB to manage course information, schedules, user reviews
• Optimized the front-end performance and user experience by implementing lazy loading, code splitting, and caching, resulting in a 40% reduction in initial load times and a 20% increase in user engagement

MusicHouse: Content-based Spotify Recommendation System | *Data mining, PySpark & Kafka*   Dec 2022
• Developed a content-based music recommendation system using Spotify API, leveraging **Kafka** for data streaming
• Implemented a scalable and distributed architecture with **Spark SQL** to handle streaming data and the recommendation process
• Employed **MLlib's KMeans** algorithm to cluster songs based on their audio features, improving recommendation accuracy by 76%

MF-Net: GAN-based Few-shot Stylized Font Image Generator | *Deep learning, PyTorch*   Jul 2022
• Developed an end-to-end GAN-based model with **PyTorch** for generating font images in arbitrary styles from reference images
• Conducted rigorous benchmarking of the model against SOTA baselines on 858 stylized fonts, demonstrating a 17.3% SSIM improvement in image distance, a 27.4% mFID improvement in feature distance, and a 16.7% improvement in user evaluation
• Researched and implemented a novel **skip connection** that improved the model's performance by 19% SSIM
• Fine-tuned the hyperparameters through extensive experiments, enhancing the fidelity of generated images in untrained languages