Anthony (JunXiang Huang)

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Skills

- Programming Languages: Python, C/C++, SQL, R, Java, HTML, CSS, Matlab.
- Programming Frameworks: PyTorch, OpenCV, Huggingface, Pandas, NumPy, Matplotlib, Seaborn, Neo4j, Flask.
- Technologies: Deep Learning, Computer Vision, Weights and Biases, Docker, Git, GCP, Linux, Kafka, DVC
- Languages: English (Native), Chinese (Full Professional Proficiency), Indonesia (Native).

Experience

- Zhejiang University
 - Student Researcher Computer-Aided Design Lab (Prof. Changqing Zou)

• Literature Review: Review 20+ papers on Super-Resolution and Generative-Vision Models.

• Modeling: Developed a Transformer-based super-resolution model with Dual Attention, optimized for 2× faster inference via pruning. Leveraged 8 V100 GPUs for distributed training, ensuring high performance and scalability.

• Nanjing University

Student Researcher – Graduation Thesis (Prof. Wei Hu)

- Knowledge Graph Engineering: Designed and implemented a Neo4j-based knowledge graph for managing Maven dependencies, using SAT solving and DFS to automate pom.xml generation and resolve conflicts.
- Model Optimization: Enhanced Maven build efficiency through graph-driven dependency resolution, improving success from 70% to 98% and streamlining the compilation process.

Meituan	Beijing, China
Software Engineering Internship	10/2023 – 11/2023
• Backend Development : Built a Flask Python backend with LLM to operational insights, improving decision-making and efficiency.	analyze food delivery data and provide

· Alibaba Group

Software Engineering Internship - Intelligent Connectivity

- Big Data Processing: Managed large-scale datasets, developed automated data cleaning and validation tools with Python, and SQL, optimizing preprocessing pipelines for improved model performance.
- Prompt Engineering & Model Optimization: Designed prompts for generative AI models, refined structures through failure case analysis, and collaborated on data flow improvements to enhance model efficiency.

• JP Morgan Chase & Co.

Software Engineering Internship

• Data Integration & Optimization: Streamlined real-time stock price processing, optimized Python server for continuous updates, and integrated live visualizations in React using Perspective.js. Developed price alerts and dashboards, ensuring efficiency through testing.

Projects

- SCAttNet: Developed an image super-resolution model with spatial and channel attention mechanisms, achieving a PSNR of 29.18 and SSIM of 0.77 for high-quality image enhancement in mobile, medical, and digital art applications.
- Dynamic Pricing: Built a real-time pricing model using CatBoost, achieving an RMSE of 186.07 and an R² of 0.9008. Integrated into a Docker-based CI/CD pipeline, optimizing deployment for data-driven pricing in e-commerce.
- BoW + Tiny Image Scene Recognition: Built a scene recognition model using Bag of Words and Tiny Image Representation with KNN, improving accuracy by 17.8%. Enhanced features with SIFT and k-means clustering.

Education

• Nanjing University

BSc Computer Science

- Nanjing, China 09/2020 - 07/2024
- Thesis: A preliminary study on the construction and application of knowledge graph for Java code repositories
- Relevant Courses: Software Development, Machine Learning & AI, Deep Learning, Algorithms, Cloud Computing, Database & Big Data, System Design, MLOps.

09/2024 - Present

Nanjing, China 04/2022 - 09/2023

Hangzhou, China

Hangzhou, China 07/2023 - 09/2023

Remote 07/2020 - 09/2020