

Danyang Li

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EDUCATION

University of Maryland

B.S. in Computer Science | GPA: 3.8/4.0

College Park, MD

Aug 2024 – May 2027

Beijing Normal-Hong Kong Baptist University

Coursework toward B.S. in Computer Science | GPA: 3.9/4.0

Zhuhai, China

Sep 2022 – Jun 2024

Relevant Coursework

Data Structures, Algorithms, OS, Computer Systems, Database Systems, Linear Algebra, Probability&Statistics, Data Programming

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, R, PHP, HTML/CSS

Databases: MySQL (familiar: Elasticsearch, Neo4j, MongoDB, Redis)

Tools/Testing: Linux, Git, Docker, Alibaba Cloud (ECS, OSS), Roboflow (familiar: AWS, KNIME; pytest, JUnit)

Libs/Frameworks: NumPy, Pandas, scikit-learn (familiar: OpenCV, PyTorch, FAISS; React, Node.js)

WORK EXPERIENCE

Software Engineer Intern

Beijing TRS Information Technology

Guangzhou, China

May 2025 – Jul 2025

- Generated 31K training samples via LLM-based data augmentation for classical Chinese retrieval; fine-tuned BGE-M3 and BGE-Reranker through a 4-stage hard negative mining pipeline, improving NDCG@10 by 25% with 98% Recall@10
- Built a Python pipeline to scrape 5100+ documents from 2 external sources into structured JSON; implemented field normalization, MD5-based deduplication, and Elasticsearch bulk ingestion for a vertical search system
- Extended an open-source knowledge graph tool with Chinese support and Neo4j integration; processed ~500 articles via DeepSeek API, extracting 934 entities and 2813 relationships into a queryable graph for a digital library application
- Prototyped vector-based image similarity search using CLIP encoder and LLaVA projection weights; tested on 5K COCO images, identified dimension constraints, and evaluated alternatives (OCR+LLM captions) to guide technical decisions

PROJECT EXPERIENCE

Comic Viewer

Full-Stack Developer | React, Node.js, Alibaba Cloud

Independent Project

Spring 2025

- Developed a full-stack comic reader with Node.js backend and React + Vite + Tailwind frontend; supports automatic directory scanning and multi-format files
- Implemented session-based authentication and RESTful APIs; deployed on Alibaba Cloud ECS with PM2 and Nginx
- Built responsive UI with keyboard/touch navigation, lazy-loaded thumbnails, and preview panels for cross-device browsing

Image Optimizer

Team Leader | Python {NumPy, Pandas, OpenCV, CustomTkinter}

Data Programming Workshop

Spring 2024

- Designed image processing pipeline with NumPy and OpenCV to modify pixel-level features (brightness, contrast, saturation) with real-time histogram visualization
- Built dataset expansion tool with Unsplash API; implemented auto-optimization using statistical analysis of pixel distributions
- Led 6-person team to deliver modular CustomTkinter desktop app; managed Git workflow and task distribution

Scholar Data Mining

Team Member | Python {BeautifulSoup, Selenium, Multithreading}

Prof. Weifeng Su's Lab

Summer 2023

- Developed multithreaded Python parsers with BeautifulSoup and Selenium to collect/update scholar data and publications from academic databases
- Implemented hierarchical exception handling and thread-safe data collection to ensure scraping reliability and fault tolerance
- Designed author deduplication pipeline using string matching and metadata similarity scoring to merge records across sources

HONORS & AWARDS

BNBU First Class Award, 2022-2023 Merit-Based Scholarship

Dec 2023

Third-Place Prize, Guangdong C/C++ Programming University Group B,

Apr 2023

The 14th Blue Bridge Cup National Software and Information Technology Professional Competition

LEADERSHIP & ACTIVITIES

Operations Assistant

BNBU Math Zone

Zhuhai, China

Mar 2024 – Jun 2024

- Managed recurring operations (open/close procedures, front-desk reception, basic upkeep) and guided faculty/staff walkthroughs

One-On-One Tutor

BNBU Personal Growth and Counseling Center

Zhuhai, China

Nov 2023 – May 2024

- Tutored students in Object-Oriented Programming and English for Academic Purposes, guiding assignments and exam reviews with structured feedback and practice recommendations