Kecheng Jin

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EDUCATION

The University of Edinburgh   Edinburgh, UK
Bachelor of Science in Artificial Intelligence   *Sep 2024 – May 2028*
- First Year average: 90/100

Nanjing Hankai Academy   Nanjing, China
High School Diploma (A Level: 3A* 1A)   *Sep 2022 – May 2024*
- Monitor in Grade 11, Ran Alpha AI Club

RESEARCH EXPERIENCE

SparrowNet: An Ensemble Approach to Hieroglyph Character Recognition   Jul 2023 – Sep 2023
Researcher, Southeast University Summer AI Program   *Nanjing, China*
- Proposed **SparrowNet**, a novel ensemble neural network combining lightweight ResNet variants with 1x1 convolutions.
- Benchmarked SparrowNet against ResNet18 and GoogLeNet V2 on an open-source Egyptian hieroglyph dataset, analyzing efficiency and accuracy across multiple metrics.
- Produced a formal research paper outlining methodology and results
- **Skills:** Python, PyTorch, Deep Learning

PROJECTS

Lets-break-the-information-gap | *FastAPI, PostgreSQL, React, Gemini API, Docker*   Jun 2025 – Present
- Developed a web app that converts RSS feeds into personalized, multi-speaker podcasts.
- Integrated Gemini API to generate scripts and automate podcast creation.
- Implemented full-stack CI/CD pipeline with containerized deployment.

Home Server Setup | *Docker, Linux*   Dec 2024 – Present
- Repurposed an HP-Elitedesk-800-G4-SFF to host Ubuntu Server running Docker containers (Nextcloud, Jellyfin).
- Used for deploying and testing personal frontend/backend projects.

Reflex | *Electron, JavaScript, Git*   Feb 2025 – Jun 2025
- Built AI-powered English learning desktop app with story-based vocabulary review.
- Enabled daily tracking of 10 new words and contextual learning via generated stories.

LICENSES & CERTIFICATIONS

Microsoft Technology Associate: Introduction to Programming using HTML and CSS
Issued by Microsoft   *Apr 2022*
Microsoft Technology Associate: Security Fundamentals (MTA)
Issued by Microsoft   *Jan 2022*
Microsoft Technology Associate: Introduction to Programming using Python
Issued by Microsoft   *Oct 2021*
Deep Learning Specialization
Coursera

TECHNICAL SKILLS

Languages: Python, Java, Haskell, SQL (Postgres), Markdown, LaTeX, HTML5, CSS, JavaScript
Frameworks: React, FastAPI, PyTorch, Electron
Developer Tools: Git, Docker, Unix/Linux, AI Agents, Lightroom
Other Skills: Containerization, Deep Learning, NumPy, Pandas, Matplotlib