

ZESHUO CAI

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Nationality: Chinese

EDUCATION

Universiti Putra Malaysia (UPM) — B.Sc. Computer Science (Honours)

Oct 2022 – Jul 2026

PROFESSIONAL EXPERIENCE

Junior Technician Intern — Huayu Tianhe Science and Technology Co., Ltd. (Jul 2025 – Sep 2025)

- Assisted in developing, testing, and debugging software using Python, Java, C++, JavaScript.
- Supported hardware diagnostics, system upgrades, and server maintenance.
- Conducted cybersecurity tasks: patching, log analysis, vulnerability checks.
- Provided network support, troubleshooting routers/switches.

Assistant to Senior Data Scientist Intern — Shanghai Evan Technology Co., Ltd. (Dec 2024 – Feb 2025)

- Cleaned, processed, and validated datasets; automated ingestion workflows.
- Built SQL/NoSQL databases and ETL pipelines.
- Supported ML model development; evaluated model accuracy.
- Created dashboards using Tableau/Power BI/Python.

Fintech Research Assistant Intern — Beijing BGLT Technology Co., Ltd. (Jun 2024 – Sep 2024)

- Analyzed financial datasets, digital banking trends, blockchain applications.
- Built SQL databases and Python automation scripts.
- Contributed to fintech platform testing and compliance assessments.
- Assisted in drafting cybersecurity and regulatory checklists.

PROJECT EXPERIENCE

AI Navigation Assistant for Visually Impaired — Project Owner

- Developed browser-based YOLOv8 obstacle detection using WebAssembly.
- Implemented distance estimation, spatial audio alerts, WCAG-compliant UI.
- Achieved <200ms latency and >90% accuracy on mobile devices.

PDPA Compliance Sentinel — Team Leader

- Built ML models to assess PDPA breach risk.
- Created dataset mapping Malaysian breach cases to PDPA principles.

- Implemented anomaly detection using Isolation Forest/Autoencoders.

Rice Variety Classification with Deep Learning — Team Leader

- Implemented CNN/ANN for classifying 75,000 rice images.
- CNN achieved 98.7% training accuracy and 88.4% validation accuracy.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, C++

Tools: TensorFlow, Keras, PyTorch, OpenCV, Flask, Git/GitHub

Databases: PostgreSQL, MySQL, MongoDB

Data/ML: ETL, data cleaning, model training, visualization

Other: Tableau, Power BI, Microsoft Office

LANGUAGES

Mandarin Chinese (Native), English (Fluent)