YE CHENG

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EDUCATION

University of Nottingham **Ningbo, China**
Bachelor of Computer Science *Sep 2022 – Jun 2026 (Expected)*

- GPA: 3.80/4.00 (First Class Honours)
- Honors: Dean's Scholarship 2022-2023 (Top 10%)
- Major Courses: Programming and Algorithms, Systems and Architecture, Mathematics for Computer Scientists, Databases and Interfaces, Software Engineering

Trinity College Dublin, The University of Dublin **Dublin, Ireland**
Undergraduate Visiting Student *Sep 2024 – Jun 2025*

- Exchange GPA: 3.70/4.00
- Major Courses: Applied Probability, Data Analytics, Concurrent Systems and Operating Systems, Computer Graphics, Group Design Project, Compiler Design

INTERNSHIP EXPERIENCE

Tencent Technology (Shanghai) Co., Ltd. Shanghai, China
Tencent Cloud (CSIG) — Technical Product Business Trainee *Aug 2025 – Sep 2025*

- Communicated effectively with channel resellers to understand client needs and map multi-layer Tencent Cloud offerings, including 10+ Tencent core product including IaaS, PaaS (TKE Kubernetes, TDSQL), and SaaS (Tencent Meeting, WeCom).
- Collaborated with resellers to tailor product demonstrations for 15+ enterprise client scenarios, translating technical features into business value propositions and supporting solution design discussions.
- Coordinated with product and engineering teams to develop 8 technical briefs, facilitating partner-led promotions that contributed to a 15% rise in enterprise client engagement with cloud infrastructure offerings.

Deloitte & Touche Financial Advisory Services Limited Hangzhou, China
Technology & Transformation Department Intern *Jun 2025 – Jul 2025*

- Collaborated with Audi stakeholders to gather and analyze business requirements, producing workflow diagrams and functional documents that defined system specifications for the anti-counterfeiting traceability platform.
- Supported technical implementation by assisting in Java backend feature enhancement, including Redis-based caching and RabbitMQ-driven asynchronous processing, which improved system response time by 40% and throughput by 30%.
- Coordinated with backend, QA, and operations teams to prioritize feature delivery and align the development roadmap with business goals, ensuring timely release of core modules.

Shaoxing Zhongdao Co., Ltd. Shaoxing, China
Software Test Engineer Intern *May 2024 – Aug 2024*

- Participated in building automated API testing with Pytest and Postman (Newman), creating 50+ cases across normal, edge, and error scenarios, and collaborated with senior engineers to validate backend code.
- Conducted performance testing with JMeter and optimized backend code (indexed SQL queries and implemented Redis caching), reducing average API response time by 40% (from 500ms to 300ms) under load.
- Contributed to integrating test suites into Jenkins CI pipelines for automated regression; gained white-box testing experience by reading backend source code to locate bugs and verify fixes.

PROJECT EXPERIENCE

Enhancing E-Commerce Recommendations with Large Language Models *Sep 2025 – Present*
- Built a data pipeline for e-commerce interactions and fine-tuned Llama 3.2 - 7B on domain-specific data to improve recommendation relevance.
- Developed a hybrid recommendation framework that integrates LLM-based semantic analysis with collaborative filtering (handling 100K+ user embeddings) and content-based filtering (processing 50K+ product attributes).
- Evaluated the system against established Llama 3.2 - 7B, achieving a 10% average improvement across key metrics, including prediction accuracy (precision/recall) and user satisfaction.

Trinity Life Platform *Oct 2024 – Mar 2025*
- Developed backend system using Python Flask + SQLite, integrated Google Firebase for authentication and login management.
- Designed RESTful APIs for user authentication, post publishing, commenting, and liking; validated endpoints with Postman and ensured secure frontend–backend communication; achieved 100% defect-free delivery through Jira-based bug tracking.
- Built AI-driven content moderation system: implemented local sensitive-word filtering with MySQL+Redis and leveraged ChatGPT API (text) and Google SafeSearch API (image) for automated content moderation, with dynamic updates to the local keyword database.

EXTRACURRICULAR ACTIVITIES

Shaoxing Municipal Data Bureau The People's Government of Shaoxing
Data Aggregation Intern *Jul 2025*
- Consolidated multi-source municipal datasets from six districts into the city's Open Data Portal; standardized schemas and metadata to enhance data discoverability and API accessibility.
- Developed Python ETL pipelines to ingest, validate, and deduplicate CSV/Excel/JSON data from various bureaus, implementing data masking techniques to ensure compliance with Zhejiang Public Data Regulations.
- Designed and implemented a comprehensive dataset release framework including catalog entries, data dictionaries, and API documentation, reducing manual processing time by 30%.
- Deployed RESTful APIs with pagination and query filtering capabilities; created user documentation and monitored access metrics to optimize data service delivery.

Science & Engineering Student Association University of Nottingham Ningbo China
Head of Media Department *Apr 2023 – May 2024*
- Coordinated a student media team to produce original digital content, including a short film addressing community well-being during the pandemic, which attracted 20,000+ views and significantly increased student engagement.
- Implemented data-driven media strategies by developing a Final Cut Pro quick-editing manual and conducting training sessions, improving a 12-member team's productivity by 25%.
- Received Outstanding Staff Award for exceptional contributions to media strategy development and organizational impact.

SKILLS

- **Language**: Mandarin (Native), English (Proficient, IELTS 7.5, CET-4, CET-6).
- **Technical Skills**: Proficient in Python (PyTorch, NumPy, Pandas), Java, SQL; skilled in R, MATLAB.
- **Other Skills**: Proficient in Microsoft Office, Photoshop, Lightroom, and Final Cut Pro.