Ming Ze

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Professional Summary

A results-driven Software Engineer with a proven track record of delivering high-impact optimizations in fast-paced environments. My expertise lies in building scalable microservices using SpringBoot and Apache Kafka, demonstrated by engineering a 90% improvement in system response times. I am now advancing this practical foundation with a Master's in Artificial Intelligence at the University of Aberdeen, contributing to published research in Large Language Models and Computer Vision to bridge the gap between high-performance systems and cutting-edge AI.

Core Skills & Competencies

- **Programming Languages:** Java, TypeScript, Python, Dart, SQL
- **Frameworks & Technologies:** SpringBoot, TensorFlow, PyTorch , AngularTs, Flutter, Apache Kafka, Docker, Kubernetes
- **AI & Machine Learning:** Deep Learning, Natural Language Processing, Computer Vision, Knowledge Representation, Multi-Agent Systems, Symbolic AI
- **Development Practices:** Microservices Architecture, RESTful API Development, Continuous Integration/Deployment, Agile Methodologies
- **Domain Expertise:** Enterprise Resource Planning (ERP), Human Resource Management Systems (HRMS), Logistics Management, Web Application Development, Blockchain Integration
- **Leadership & Collaboration:** Team Leadership, Project Management, Cross-functional Collaboration

Professional Work Experience

AI System Developer, Full Time

Queen's University Belfast, Belfast, United Kingdom ***Feb 2026 - Present***

- Designing **agentic, multi-stage AI screening pipeline** to evaluate companies seeking SEIS/EIS funding, reducing a pool of ~1,500 applicants to a shortlist of high-potential investment candidates
- Analyse historical venture capital datasets to identify key characteristics of companies that successfully achieved IPOs or buyouts, informing investment decision-making
- Integrate emerging research trends to identify Knowledge-Intensive Companies (KICs), and assess whether applicant companies demonstrate potential to become industry pioneers aligned with academic and technological advancements

Software Engineer, Contract

University of Aberdeen, Aberdeen, United Kingdom ***Aug 2025 - Jan 2026***

- Architected an AI-powered legal knowledge management system for the Faculty of Law, creating a centralized digital repository to manage and upkeep historical court cases
- Engineered a recommendation engine using Natural Language Processing (NLP) to perform semantic analysis on new case files, with the goal of surfacing relevant precedents faster than manual methods
- Designed the system to significantly accelerate legal research workflows, projecting a reduction in case preparation time for faculty by half

System Developer, Contract

Great Grow Hardware, Remote ***Sep 2024 - Aug 2025***

- Architected comprehensive ERP system unifying HR, Sales, and Warehouse operations, replacing fragmented legacy systems and improving cross-departmental efficiency
- Deployed GPS-based attendance tracking that eliminated manual timekeeping errors, reduced payroll processing time by 40%, and improved workforce accountability
- Developed integrated sales platform with real-time inventory visibility, accelerating order processing and enabling accurate delivery commitments
- Created company website with SEO optimization to grow organic traffic and strengthened digital presence

Full-Stack Engineer, Full Time

Cedvalley Group, Subang Jaya, Malaysia ***Feb 2023 - Jun 2024***

- Engineered database optimizations delivering response times from 10 seconds to under 1 second across millions of SQL queries, dramatically enhancing user experience
- Employed Apache Kafka architecture for large-scale package status updates, processing over 5000 messages per hour and ensuring reliable real-time processing and eliminating database bottlenecks
- Built Angular-based logistics tracking and CRM systems serving 40+ partnering businesses, providing real-time operational

visibility for data-driven decision making
- Configured Docker/Kubernetes deployment pipeline achieving faster development cycles and resolving environment-related production issues
- Spearheaded blockchain integration for supply chain traceability, establishing foundation for enhanced transparency and compliance

Software Engineering, Intern

SICPA S.A., Cyberjaya, Malaysia ***Dec 2021 - May 2022***

- Delivered mission-critical SpringBoot backend services processing 2000+ daily stamp seals production system for the initial rollout under a tight deadline with Inland Revenue Board of Malaysia
- Created comprehensive web management console digitizing government workflows for stamp seal production supervision, achieving 70% reduction in manual processes and improving transparency with blockchain ledger
- Established Docker deployment infrastructure for internal staging environments preventing deployment failures and cutting system downtime, and accelerated development-to-testing cycles
- Collaborated cross-functional teams including 4 departments including government stakeholders, ensuring seamless integration and regulatory compliance throughout development lifecycle

Education

M.Sc. Artificial Intelligence

University of Aberdeen, Aberdeen, United Kingdom ***Sep 2024 - Sep 2025***

Grade/Classification: **Distinction**

Courses: *Software Agents and Multiagent Systems, Data Mining and Deep Learning, Natural Language Generation, Machine Learning, Symbolic AI, Evaluation of AI Systems, Applied Artificial Intelligence*

B.Sc. Software Engineering

Asia Pacific University of Innovation & Technology (APU), Kuala Lumpur, Malaysia ***Mar 2019 - Mar 2023***

Grade/Classification: ***First-Class***

Courses: *System Analysis and Development, Artificial Intelligence, Digital Forensic, Mobile App Engineering, Data Structures and Algorithms, Computer Networks, Blockchain Development, Advanced Database Systems, Design and Implementation of Applications on Cloud*

Certifications and Achievements

Academic Publications

- Gagan B., **Ming Ze T.**, Cristina M., and Madiha K. (2025). "DateLogicQA: Benchmarking Temporal Biases in Large Language Models." *Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Human Language Technologies*, Volume 4: Student Research Workshop, pages 321–332, Albuquerque, USA
- **Ming Ze T.**, and Madiha K. (2025). "Pose Matters: Evaluating Vision Transformers and CNNs for Human Action Recognition on Small COCO Subsets." *Computer Vision and Pattern Recognition*. DOI:10.48550/arXiv.2412.13377

Competition Achievements

- **Programming League National 22'** ***Apr 2022***
  - Led a three-member team representing APU, completing all coding missions on time and providing comprehensive Java training sessions to teammates in preparation for the competition
- **Google Workspace A.I. Hackathon** ***July 2024***
  - Team Member developing innovative Speech-to-Text integration with Google AppScript for automated candidate response reporting
  - Designed web portal solution for summarizing and extracting keywords from candidate responses during interviews to streamline preliminary filtering processes

Project Leadership

- **Cookit Mobile Application** ***Oct 2022 - Feb 2023***

  Product Owner for AI-powered cooking recipe mobile application demonstrating Generative AI capabilities for image and description generation. Implemented innovative proximity sensor controls for recipe instruction navigation, inspired by Samsung AirGesture sensor technology

References

Available upon request