

# Bolei Chen

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## Education

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- MEng Imperial College London**, Computing (AI and Machine Learning) Oct 2022 – June 2026
- **Courses:** Computer Architecture, Operating System, Software Engineering, Computer Networks, Compilers, Functional Programming
  - **Grades:** Predicted First Class

## Experience

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- Dojo**, AI Engineer Intern London, UK  
Apr 2025 – Sept 2025
- Developed an LLM-powered IT service desk with 30+ LangGraph agents, reducing IT resolution time by 40%.
  - Integrated RAG, vector search, and Cloud SQL to build a scalable knowledge base with high availability.
  - Implemented IAM controls and guardrails to ensure secure and compliant enterprise deployment.
- China Industrial Securities International Financial Group**, ML Research Intern Shanghai, China  
Jul 2024 – Sept 2024
- Applied RAG to business proposal data, improving model accuracy by 5%.
  - Built a Qwen-based multi-agent chatbot with encoder + TF-IDF retrieval, accelerating training by 70%.
  - Designed an NL2SQL agent, enabling natural language database queries and improving usability.
- Smart Earth Sensing**, ML Engineer Intern Hefei, China  
Jul 2023 – Sept 2023
- Designed and executed audio data collection experiments at client construction sites with mentor collaboration.
  - Engineered features using embeddings and Fast Fourier Transform for model training. Trained multiple CNN classifiers, and compared performance across feature sets.
  - Delivered a classifier with 86% accuracy, outperforming the previous model by 9%.

## Projects

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- WACC Compiler** [WACC](#)
- Collaborated in a group of four and developed a compiler for a while language.
  - Set up a CircleCI CI/CD pipeline with integration and unit testing.
  - Implemented optimization methods including Loop Invariant Lifting and Dead Code Removal.
  - Tools Used: Scala
- Pintos** [Pintos](#)
- Designed and implemented a multilevel feedback queue scheduler (MLFQ), supporting dynamic priority adjustment and starvation prevention.
  - Developed supplemental page tables, page eviction, and lazy loading of executable and memory-mapped files.
  - Tools Used: C, gdb

## Skills

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**Languages:** Python(preferred), C, Java, Scala, Haskell, Kotlin  
**Tools:** Git, Vim, Docker, Latex, SSH, Linux, Google Cloud Platform  
**Frameworks:** Pytorch, Tensorflow, Flask, LangGraph, React