

CHAN HAO KANG

SOFTWARE ENGINEER

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[Portfolio](#)

Profile

Backend Software Engineer with 4+ years of experience designing scalable APIs, optimizing databases, and automating CI/CD pipelines. Proven impact in reducing latency, improving backend architecture, and driving testing best practices. Passionate about backend craftsmanship, team collaboration, and building scalable systems that last.

Technical Skills

Languages: Python, JavaScript, C#, SQL
Frameworks: .NET (ASP.NET Core), FastAPI
Databases: MongoDB, MSSQL, Redis
APIs: REST, GraphQL
DevOps & Tools: Git, GitLab CI/CD, Docker
Testing: Unit Testing, Integration Testing
Cloud: Google Cloud Platform

Employment History

Sept 2024 - Present

Software Engineer II at AirAsia, Asia Digital Engineering Sdn Bhd, Sepang

- Reduced API response time by 93% through backend refactoring in FastAPI and database optimization.
- Rebuilt and modularized microservices for better scalability and CI/CD deployment efficiency.
- Restructured MongoDB schemas for faster queries and reduced data redundancy.
- Migrated data from PostgreSQL to MongoDB, handling transformation logic, schema design, and data validation.
- Implemented unit and integration test pipelines with GitLab CI, increasing test reliability and release confidence.
- Took ownership of performance-critical backend components and led architectural improvements.

July 2021 - Sept 2024

Software Engineer at Exact Asia Development Centre Sdn Bhd, Kuala Lumpur

- Delivered core ERP features using ASP.NET, improving functionality and user workflows.
- Resolved complex bugs and technical issues collaboratively across teams.
- Refactored legacy modules, improving maintainability and reducing technical debt.
- Tuned MSSQL queries for performance gains, reducing load times and system strain.

- Participated in daily Agile/Scrum processes, driving timely feature delivery.
- Mentored junior developers via code reviews, pair programming, and 1-on-1 technical sessions, accelerating onboarding and fostering team growth.
- Awarded Employee of the Quarter for outstanding performance and dedication.

March 2020 - June 2020 Software Engineer Intern at Digi - x, Subang Jaya

- Developed components in React Native and Android Studio during mobile app projects.
- Practiced debugging and agile collaboration in a fast-paced development team.

Education

April 2017 - April 2021 Bachelor of Computer Science, Multimedia University, Cyberjaya

Certificates

IBM Back-end Development Professional Certificate
Microsoft Azure Data Fundamentals (DP-900)
Microsoft Azure Fundamentals (AZ-900)
MongoDB Aggregation Framework

Languages

English

Chinese