

CHENG TZE KEONG

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OBJECTIVE

Senior Software Engineer with expertise in full-stack development, mobile applications, and cybersecurity, seeking a role in AI to develop innovative and scalable software solutions.

SKILLS AND ABILITIES

Technical Skills:

- Languages: Java, Kotlin, Swift, Python, Golang, Rust, Erlang, Elixir, C/C++, JavaScript, TypeScript, Zig
- Front-End: Flutter, SwiftUI, WeChat Mini Program, VueJS, React.js, Next.js, TailwindCSS

Back-End: Node.js, Express.js, NestJS, FastAPI, Phoenix (Elixir), Rebar (Erlang), GraphQL, gRPC, Spring boot, Gin

- Databases: MySQL, PostgreSQL, Firestore, CouchDB, MongoDB, Redis, Supabase
- AI/ML: TensorFlow, PyTorch, OpenCV, Hugging Face, NLP, LLMs, Chatbott
- Blockchain & Web3: Solidity, Smart Contracts, Ethereum, TON, IPFS, DeFi, dApps

Soft Skills:

- Problem-Solving and Team Leadership
- Effective Communication
- Project Management and Time Management

PROFESSIONAL EXPERIENCE

Senior Full-Stack Developer & Technical Consultant
Freelance | Aug 2023 – Present

- Developed an intelligent customer service system for Southeast Asian e-commerce clients using NLP and LLM technologies, reducing manual support workload by 40% and significantly improving customer satisfaction.
- Applied data science and machine learning techniques in the medical domain to support diagnostic insights and predictive modeling.
- Built and deployed enterprise-grade ERP backend systems using Spring Boot, optimizing financial, HR, and inventory workflows for small to mid-sized businesses.
- Designed a cross-chain hybrid payment infrastructure for a DeFi platform, integrating Stripe and cryptocurrency support, and achieving transaction throughput exceeding 5,000 Transactions.
- Conducted comprehensive penetration testing for three medical companies, identifying and mitigating 12 high-severity vulnerabilities, contributing to successful ISO 27001 compliance.
- Developed security tools using C++ for system-level monitoring and prototyped hardware-based intrusion detection systems with Arduino for red team operations.
- Organized and led over 20 technical workshops on AI, blockchain, DevOps, and cybersecurity, engaging more than 500 developers and promoting open knowledge sharing across the APAC region.

Senior Mobile Application Developer
Sleekflow Private Limited | Aug 2022 - Dec 2023

- Designed and updated software databases and user interfaces.
- Developed and deployed new features for eCommerce applications with payment system.
- Utilized tech stacks including WhatsApp API, Stripe, Flutter, Swift, Kotlin.

Senior Software Engineer
Mynapse Sdn Bhd | App 2020 - Jun 2022

- Developed and implemented new software programs.
- Led development of SMS services and Video Calls application.
- Utilized Kotlin, Java, Elixir, Erlang, CouchDB, Flutter.

Software Engineer
Braintech (M) Sdn Bhd | Jan 2018 - Mar 2020

- Developed scientific software for EEG and BCI applications.
- Created efficient web services using Firebase and MySQL.
- Integrated Nordic SDK and Qualcomm SDK in Android applications.

Armed Security Guard
G4S | Jun 2014 - Nov 2017

- Administered facility security programs.
- Safeguarded government information and equipment.
- Operated personnel identification and access controls.

EDUCATION

Malaysian Higher School Certificate
SMK Hamid Khan | Graduated: 2013

- Participated in internships with professional sports organizations.
- Developed skills in event planning, sponsorship activation, and fan engagement.