

Abraham Kristanto

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SUMMARY

Software Engineer with expertise in architecting and deploying scalable, end-to-end systems. Proven ability in building resilient distributed systems, full-stack applications, and AI-driven platforms on modern cloud infrastructure. A high-achieving graduate with Distinction from the University of Melbourne and cum laude honours from Universitas Indonesia.

EDUCATION

University of Melbourne Master of Computer Science Thesis: <i>Leveraging LLMs for Digital Forensics Triage and Analysis via Knowledge Retrieval and Tool Integration</i> Coursework: Distributed Systems, Web Security, High Integrity Systems Engineering, Security and Software Testing	July 2023 — July 2025 Graduated with Distinction
Universitas Indonesia Bachelor of Computer Engineering	July 2018 — June 2022 Cum Laude Honours

SKILLS

Programming	Python, JavaScript, Go, Java, C/C++, Kotlin, SQL, Bash
Cloud, Databases & Dev Tools	AWS, GCP, Azure, Docker, Linux, Git, Postgres, MySQL, MongoDB, Nginx
Frameworks & Practices	Django, Flask, React, Next.js, TensorFlow, PyTorch, Agile, Scrum, CI/CD

EXPERIENCE

University of Melbourne <i>Postgraduate Researcher</i>	Melbourne, Australia June 2024 — Present
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- Developed an AI-driven full-stack platform using React, TypeScript, and Django to automate data processing and improve workflow efficiency.
- Integrated AI agents and vector databases to enable natural language querying and enhanced data retrieval.
- Collaborated with domain experts to refine platform features and validate AI-driven outputs through iterative feedback.

Sea Group (Shopee) <i>Software Engineer</i>	Remote June 2022 — June 2023
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- Built and delivered user-facing features on Shopee’s Discovery platform using React, TypeScript, and Go, serving millions of users across Southeast Asia and LATAM.
- Optimised backend API calls and implemented lazy-loading strategies, reducing page load times by 22%.
- Deployed web services to internal cloud platforms and collaborated with cross-functional teams to ensure smooth and efficient feature delivery.

Grab <i>Software Engineer Intern</i>	Remote June 2021 — January 2022
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- Developed and shipped dashboard components using React and Next.js to streamline merchant onboarding, contributing to a 30% increase in new user satisfaction.
- Implemented unit and integration tests with Jest and React Testing Library to improve workflow reliability and maintainability.
- Collaborated with product managers and UX designers to iterate on features based on merchant feedback and refine key performance metrics.

EXTRACURRICULAR ACTIVITIES

Melbourne Information Security Club (MISC) , Education Director	2024 — 2025
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- Collaborated with security professionals to design hands-on labs simulating real-world attack surfaces.
- Increased workshop participation by 50% through tiered learning paths and personalised mentorship.
- Participated in Capture the Flag competitions, developing skills in web exploitation, reverse engineering, and cryptography.

Universitas Indonesia , Network Lab Assistant	2020 — 2022
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- Mentored students in secure network configuration, socket programming, and Linux systems administration, emphasizing firewall setup, intrusion detection, and secure communication protocols.
- Taught object-oriented programming (OOP) principles and core programming concepts, helping students strengthen software development fundamentals.