JACK CHEN YU JIE



Product Management | Technical Pre-Sales | Software Engineering | AI
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PROFESSIONAL SUMMARY

DSTA Scholar and product-oriented technology professional with 5+ years of experience in enterprise software engineering, product discovery and solution delivery. Translate user needs into scalable products through technical discovery, roadmap prioritisation, demonstrations and proofs of concept. Combine hands-on AI-assisted development with cross-functional leadership and entrepreneurial curriculum innovation.

PROFESSIONAL EXPERIENCE

Senior Product Engineer

Defence Science and Technology Agency (DSTA) | Jan 2023 – Present | Singapore

- Lead end-to-end product discovery and feature delivery, translating user pain points into requirements, prioritised roadmaps and scalable digital solutions.
- Conduct user interviews and innovation workshops; validate concepts through Figma prototypes and align engineering, design and business stakeholders.
- Deliver tailored technical demos, use-case walkthroughs and proof-of-concept (PoC) presentations, communicating business value to technical and non-technical audiences.
- Evaluate commercial AI and analytics platforms through vendor engagements, capability assessments and user feedback; identify gaps and inform build-versus-buy decisions.
- Coordinate cross-functional delivery from concept validation to implementation, stakeholder alignment and user adoption.
- Leverage LLMs for code exploration, implementation, debugging, research and documentation; use reusable AI Skills and explore agentic coding and specification-driven development.

Software Engineer

Defence Science and Technology Agency (DSTA) | Jun 2021 – Jan 2023 | Singapore

- Built scalable React and TypeScript applications and reusable UI architectures adopted across three or more product teams.
- Translated operational needs into intuitive workflows and functional prototypes; supported live operational events and solution adoption.
- Improved frontend maintainability across four enterprise applications and standardised tooling using Webpack, Babel and ESLint.

ADDITIONAL EXPERIENCE

Head of Curriculum

The Young Maker | Singapore | Volunteer basis

- Own curriculum product development for coding and robotics programmes (ages 4–18), iterating offerings through learner engagement and educator and parent feedback.
- Prototype new learning experiences in 3D printing, 3D modelling and generative AI, translating emerging technology into hands-on programmes.
- Coordinate educator onboarding, programme delivery and workshop partnerships, balancing customer needs, commercial relevance and operational feasibility.

EDUCATION & AWARDS

National University of Singapore | Bachelor of Computing, Computer Science (Honours with Merit) | 2017–2021

DSTA Scholar | Defence Science and Technology Agency Scholarship

SKILLS

Product Management: Product strategy, discovery, roadmap prioritisation, requirements gathering, user research, UX design, rapid prototyping, product validation, stakeholder management, cross-functional delivery, product adoption

Technical Pre-Sales & Solutions: Technical discovery, requirements qualification, solution consulting, tailored demos, PoCs, technical feasibility, vendor evaluation, competitive analysis, procurement, value communication, customer enablement

Software Engineering & Data: React, TypeScript, JavaScript, Python, Node.js, HTML/CSS, REST APIs, Git, Docker, GitLab CI/CD, MUI, Storybook, Webpack, Vite, OpenSearch, Elasticsearch, data visualisation, Figma

AI & LLMs: LLM-assisted development, prompt and context engineering, reusable AI Skills, AI-assisted research and productivity; exploring agentic coding, specification-driven development and Model Context Protocol (MCP)

Business & Leadership: Curriculum product development, programme innovation, partnerships, technical presentations, stakeholder engagement, commercial awareness

Languages: English, Mandarin