

BALAMURUGAN NETHREN

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EDUCATION

Singapore Management University

Aug 2024 – Jul 2028

BSc (Information Systems). Specialisation in Product Development and FinTech.

EXPERIENCE

Technical Product Manager Intern, Allocate Space

May 2026 – Present

Singaporean company building a no-code platform for IoT and AI-powered operational workflows.

- Co-designed a multi-agent AI evaluation system that runs acceptance scenarios in parallel, cutting a full day of manual QA to under 1 hour.
- Defined what counts as a pass, so the system never reports a test it could not finish as a product failure.
- Withheld expected results from the acting agent to stop it confirming an answer it already knows.
- Extended the system to walk each journey as a user would and judge the experience, flagging friction in the UI/UX.
- Authored 3 PRDs and 8 feature specs covering 30+ acceptance scenarios and 4 end-to-end journeys.
- Audited 36 features against business requirements, corrected 16 of 19 mappings, and flagged 2 of 8 capabilities as unbuilt.
- Led the go-to-market repositioning from a workflow builder to the layer that makes AI-built apps usable inside a company.
- Delivered an AI enrichment pipeline that ranked investor and sales targets across three outreach campaigns.

Fire and Rescue Officer (Lieutenant), Singapore Civil Defence Force

Jan 2023 – Jan 2024

- Led a 40-person team in time-critical firefighting and hazmat operations, holding command clarity under pressure.
- Developed contingency response plans with the unit for national events including the National Day Parade.
- Planned 4 large-scale public education events about CPR and basic firefighting, reaching 500+ attendees.

PROJECTS

APIFit, API and MCP discovery · apifit.nethren.com

Sep 2026

- Built a React and Node tool that matches a plain-language product idea against ~2,500 API records and ~32,000 MCP listings.
- Shows the source evidence and open questions beside every match, so a reader can judge fit rather than trust the ranking.
- Exports a selected shortlist into a build brief with capabilities, caveats and source links for engineering.
- Verified with 189 passing offline tests and a frozen 28-case benchmark that lifted top-three hits from 17/23 to 21/23.

Token Economist, AI feature cost estimator · tokenecon.nethren.com

Jul 2026

- Built a React and TypeScript tool that estimates an AI feature's cost across 7 models from 3 providers, before code is written.
- Works out the cost locally without calling a model, so estimating is free and private while providing consistent answers.
- Made cost optimisation an opt-in step that prices each suggested prompt fix and tests a cheaper model across 5 samples.
- Backed the build with 78 passing tests and an append-only log of 24 documented design and engineering decisions.

Brewvy, Café discovery by coffee bean (team, Grade A)

Nov 2025

- Ran user interviews to validate pain points and turned the findings into product requirements.
- Designed a counterbalanced within-subject A/B test to decide between two UI layouts.

LEADERSHIP

Vice-President, SMU Product Club

Aug 2025 – Present

- Led a 20-member committee delivering 5 product initiatives for a 1,600-member community, and grew membership 4.4% in two days through a campus recruitment campaign.
- Co-led planning for Product Networking Night, connecting 50 industry PMs and 150 students from SMU, NUS and NTU.
- Led an 8-week product management programme for a selected student cohort, owning intake, scheduling and weekly delivery.

SKILLS

AI product: AI evaluation and rubric design, multi-agent orchestration, human-in-the-loop review, prompt engineering, AI cost engineering

Product: PRDs, requirements traceability, user research, usability testing, A/B testing, positioning, go-to-market, Agile, BDD

Technical: Python, Java, JavaScript, TypeScript, SQL, React, Vue.js, Firebase, Playwright, Azure, Figma

Other: Google Project Management Professional Certificate. Languages: English, Tamil.