

Palatip Boonmeerit

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palatip-boonmeerit | Palatipdev

Melbourne, Victoria, Australia

EDUCATION

University of Melbourne

Melbourne, Australia

Bachelor of Design - Computing Software Systems and User Experience Design

Expected 2027

- **First Class Honours (H1)** in Database Systems, UI Development, Foundations of Algorithms; coursework in OOP, Data Structures & Algorithms, Software Engineering

EXPERIENCE

AI Engineer & Developer

May 2026 – Present

s.AI – LLM-Powered Quantity Takeoff from CAD Drawings

Melbourne, Australia

- Built an AI document-extraction pipeline (**Python, ezdxf, Anthropic Claude API**) that parses CAD drawings (**DWG/DXF**) and drafts construction bills of quantities, cutting manual takeoff from **~3 days to under 1 hour** per project
- Engineered a hybrid architecture separating deterministic geometry measurement (code) from semantic reasoning (**LLM structured outputs**), mapping drawing elements to a material catalog with per-line **uncertainty flagging**
- Built an **evaluation harness** against ground-truth BOQs from 3 completed projects plus a **human-in-the-loop** correction loop feeding fixes back as few-shot context, lifting line-item recall from **71% to 84%** across 15 drawings without fine-tuning

Founder & Full-Stack Developer

March 2026 – Present

SorTrack – Materials Procurement & Inventory Management SaaS

Melbourne, Australia

- Architected a launch-ready **multi-tenant** SaaS platform (**Next.js, TypeScript, Python FastAPI, PostgreSQL, SQLAlchemy, Supabase**) spanning purchase-order ingest, goods receipt with **per-line condition inspection**, **multi-location inventory**, and project-based withdrawals
- Designed a normalised schema with an **append-only stock-movement ledger**, **Alembic migrations**, and **role-based authorization** for a **tamper-evident audit trail**; built a **REST API (15+ endpoints)** with **JWT authentication** (local **JWKS** verification) and **Pydantic** validation
- Demoed the completed platform live to company management in a **head-to-head evaluation** against their incumbent **ERP**; the firm consolidated on the ERP and retained SorTrack as a **contingency system**

Mobile Developer

Nov 2025 – Feb 2026

mfit – Fitness Tracking iOS/Android App

Melbourne, Australia

- Shipped a production cross-platform app in a **28-day solo sprint** (**React Native, TypeScript, Expo, Firebase**); built template-driven workout generation (**89-exercise database**, $O(n)$ lookup) and a **1RM analytics dashboard** (Epley formula)

Project Coordinator (Internship)

Jun 2024 – Present

S.Boonmeerit Engineer Co., Ltd.

Bangkok, Thailand

- Led English-language cross-border negotiations with Indian contractors for a **\$2.8M AUD** temple construction project in Bodh Gaya, India; identified **15-20% procurement-fraud budget leakage** across 3 facilities that motivated SorTrack and s.AI

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C, SQL, HTML/CSS

AI/LLM: Anthropic Claude API, prompt engineering, structured outputs, LLM evaluation, document extraction, human-in-the-loop pipelines

Frameworks & Libraries: React, React Native, Next.js, FastAPI, Node.js, Expo, SQLAlchemy, Alembic, Pydantic, ezdxf

Databases & DevOps: PostgreSQL, Supabase, Firebase, Git, GitHub Actions (CI/CD), Docker, Vercel, Railway, JWT, Postman

Concepts: RESTful API Design, RBAC, Schema Design, OOP, Data Structures & Algorithms, Agile

ACHIEVEMENTS

Marathon | Solo, Unsupported, Melbourne

June 2026

- Completed 42.36km in 6:42, just 10 weeks after taking up running for the first time