Gia Tin (Peter) Huynh Duc - Software Engineer

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EDUCATION

The Royal Melbourne Institute of Technology University | **Melbourne, VIC**

B.S. in Technology - Information Technology | **GPA: 3.8/4.0**   **Expected 2026**
- **Academic Merit Scholarship, Dean's List 2024, 2025**
- **Relevant Courses: Data Structures and Algorithms, Full-Stack Development, Cloud Computing, Software Engineering Project Management, Further Programming (Java), System Deployment and Operations (CI/CD), Database Applications, Artificial Intelligence**

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, C#, C++, JavaScript, TypeScript, Bash, SQL, Swift

Web Technologies and Frameworks: HTML, CSS, React.js, Next.js, Vite.js, Tailwind CSS, Flask, Spring Boot, Node.js, Express.js, Three.js, Framer Motion

Back-End & Databases: PostgreSQL, MySQL, SQLite, Supabase, Prisma ORM, TypeORM, MongoDB, REST API, GraphQL, Redis, FastAPI, Payload CMS, Firebase

Cloud & DevOps: AWS, Azure, GCP, Vercel, Docker, Terraform, Ansible, GitHub Actions, Git, Github, Bitbucket, CI/CD

Testing & Automation: Jest, JUnit, React Testing Library, Unit Testing, Integration Testing, E2E Testing, Mockito, n8n, Playwright

AI: LangGraph & LangChain (agents), AWS Bedrock (Claude, Cohere embed/rerank), pgvector (RAG), YOLOv8 & SAHI (object detection), Mask R-CNN (segmentation), SageMaker (training), OpenCV, Jupyter Notebook, TensorFlow

Analytics & Integrations: Mapbox, Clerk, GA4, PostHog

Design & Tools: Figma, Lovable, Webflow, Webstudio, Jira, Trello, Miro, Notion, Cursor, Microsoft Copilot

PROFESSIONAL EXPERIENCE

Founding Software Engineer | **Orbitify** (**Startup**)   **Mar 2025 - Present**
- Architected a multi-tenant modular platform using React and Spring Boot that unified operations for infrastructure clients, **reducing inspection costs by 80% and enabling 94% asset health tracking.**
- Built GIS and photogrammetry pipelines (Mapbox, NodeODM, Spring Boot) to process and visualize large-scale drone orthomosaics, and developed Java spatial algorithms to map AI 2D bounding boxes to geographic coordinates for autonomous survey workflows.
- Designed an AI anomaly pipeline (Python, FastAPI, YOLOv8) that maps computer-vision detections to the frontend and auto-generates maintenance work orders, and integrated an AWS Bedrock–powered AI agent for contextual insights and incident resolution.
- Shipped real-time 3D visualizers (Three.js, Framer Motion) for topology and equipment health, implemented RBAC and multi-tenancy with Spring Security/JWT, and built a responsive Orbitify marketing site to support lead generation.
- Technologies Used: **React, TypeScript, Vite, Tailwind CSS, Three.js, Mapbox, Java, Spring Boot, PostgreSQL (pgvector), Redis, Python, FastAPI, TensorFlow, YOLOv8, AWS**

Full-Stack Engineer | **Project Pluto** (**Design & creative agency**)   **Nov 2024 - Aug 2025**
- Led the development of **GreenBook**, a sustainability platform that automated project lifecycles and **reduced delivery time by 67%** through CI/CD and automated analytics integration.
- Engineered a centralized data observability layer by integrating GA4 and PostHog with custom CMS/CRM APIs, increasing stakeholder data visibility and reducing reporting latency.
- Delivered multiple high-impact web products:
  - **KOTO Media Center** (**12K+ visitors**) – CMS-driven blog & media site with Payload CMS backend, Vercel deployment
  - **Newing Website** (**10K+ visitors**) – analytics-integrated corporate platform powered by GreenBook's backend
  - **Sustainability Impact Challenge 2025** (**1K+ visitors**) – accessible event microsite
  - **Alumni Impact Showcase 2025** (**50K+ views, 24K+ returning**) – automated alumni nomination and email workflows
- Streamlined the design-to-production handoff by implementing a shared component library in Next.js, **reducing frontend development cycles by 20%.**
- Technologies Used: **Next.js, TypeScript, Tailwind CSS, Supabase, Prisma ORM, GraphQL, Vercel, Clerk, Payload CMS, Webstudio, Webflow, GA4, PostHog**

PROJECTS

CareerHub - Events Platform | **RMIT**   **Aug 2024 - Nov 2024**
- Technologies Used: **Next.js, React, TypeScript, Tailwind CSS, Spring Boot (Java 17), PostgreSQL, Docker, AWS, GitHub Actions**
- **Scrum Master, Tech Lead & Full-Stack Developer - Led a cross-functional team of 5 as Tech Lead** through full SDLC to deliver an Events-first platform for career fairs, workshops, panels, and hackathons with category-specific features (floor maps, 1:1 booking, runbooks).
- Engineered a full-stack architecture using Spring Boot and Next.js, achieving **90%+ code coverage with 504 automated tests** and deploying via a custom CI/CD pipeline to AWS ECR.

ACHIEVEMENTS

Campus Winner (Melbourne) | **RMIT GenAI & Cyber Security Hackathon 2025**   **Oct 2025**

2nd Place Winner | **CSIT x SWITCH Hackathon 2024**   **Oct 2024**

Best Commercial Potential Award | **RMIT Future Founders Competition 2023**   **June 2023 - Sep 2023**