

DEV BAKSHI

Software Engineer · Melbourne VIC

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SUMMARY

Computer Science graduate, RMIT, conferred July 2025. Three month software engineering internship on a live SaaS platform, alongside freelance work building and maintaining systems in production for a small business client. Builds across TypeScript, JavaScript and Python, with REST API design, automated testing, and deployment on AWS, Render and Cloudflare. Experience spans the full life of a system, from specification through release to the security hardening and defect work that follows it, with a growing focus on applied AI in production.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL

Frontend: React via Next.js, Astro, Tailwind, HTML, CSS and JavaScript, REST integration

Backend: Node.js, Express, REST API design, WebSockets, authentication, session handling and role based access control

Cloud and deployment: AWS (EC2, S3, Lambda, CloudFront), Render, Cloudflare, Twilio, DNS, HTTPS, environment and secrets handling

Databases: PostgreSQL and managed Postgres, MongoDB, SQL Server, SQLite. Schema design, indexing, partitioning

Testing and quality: Automated API and regression test suites, test driven approach, Dependabot, gitleaks and Semgrep in the pipeline, content security policy headers

AI engineering: Hosted LLM integration in a production voice product, prompt design, and spec driven development with AI coding tools

Practice: Git and GitHub, pull requests and code review, Agile and Scrum, stand ups and retrospectives, technical documentation and client facing writing

EXPERIENCE

Software Engineering Intern, ZipThought

3 month internship

EdgePrompt, a live SaaS education platform for classroom resource creation

- Delivered features inside an established codebase, tracing assigned components end to end to reach productive output early in the engagement.
- Designed and implemented over 46 REST API endpoints across accounts, classes, prompts and responses.
- Built over 280 automated checks across 48 test files, significantly improving backend reliability and regression safety.
- Built authentication flows, user and account management, and role based access control.
- Resolved defects through structured diagnosis: reproduction, isolation of cause, fix, and verification prior to release.
- Introduced stand ups, retrospectives and fortnightly planning to a team operating without a fixed delivery cadence.
- Shipped through GitHub pull requests and peer review, with endpoint documentation produced for ongoing team support.

Freelance Software Developer, self employed

2025 to present

Small business clients. Production web and voice systems for KOSMO Outdoor, a synthetic turf retailer

- Built and deployed an online store on Astro, Tailwind, Stripe and managed Postgres, hosted on Render and developed in a shared repository with the client.
- Designed and built an AI phone assistant handling customer enquiries and lead capture, on Twilio ConversationRelay with a Node.js WebSocket service and a Groq hosted model.
- Selected that architecture against a self hosted Jambonz alternative on a documented cost benchmark, settling at approximately AU\$40 per month at current volume, with the call threshold for reassessment recorded.
- Hardened both deployments with content security policy headers, Dependabot, gitleaks secret scanning and Semgrep static analysis. Ongoing ownership of hosting, domains, DNS records and HTTPS certificates.
- Delivered the first store release in four days against a one week estimate, under commercial pressure from unsold stock, with the trade offs taken documented at the time.
- Reworked architecture and design mid build following a client pivot from a multi product to a single product store, triggered by a six month shipping delay.

- Diagnosed and resolved post launch defects across quote form submission, mobile layout overflow, back button history, modal containment and slideshow consistency across 12 pages.
- Authored two client facing proposals and non technical operating guides covering solution options, running costs and day to day use.

PROJECTS

WearOrbit, wardrobe management web app

Personal project, live · Next.js, Postgres, Auth.js

- Personal project, deployed and in active development. Built from a self written specification, with Auth.js authentication, image storage behind an authenticated proxy route, barcode scanning, and a hosted model pipeline that reads garment care tags from a photo and validates the extracted item.
- Automated tests cover the core flows. Ongoing work on recommendation features.

Cloud Music Platform

Java · AWS EC2, S3, Lambda

- Serverless CRUD backend on Lambda, media storage on S3 and application services on EC2, with access policies and connectivity configured across the environment.

Public Transport Ticketing Database

SQL Server · T-SQL · High Distinction, 88

- An 18 table relational model with indexes, stored procedures and partitioning, designed to sustain query performance as transaction volume scales.

LZV Cup Fixture Optimiser · Booking Platform

Clingo and Python · Node.js, Express, MongoDB

- A constraint based scheduling engine across 23 rules, 30 constraints and 6 optimisation goals, and a booking backend with validation preventing scheduling conflicts and inconsistent state.

EDUCATION AND CREDENTIALS

Bachelor of Computer Science, RMIT University, Melbourne

July 2022 to July 2025

Database Applications HD 88 · Operating Systems Principles HD 86 · Software Engineering Fundamentals HD 83 · Full Stack Development D · Cloud Computing · Software Engineering: Process and Tools

- RMIT Peer Mentoring credential, issued February 2025, verified through Credly.

ADDITIONAL

- Peer Mentor (volunteer), RMIT University, 2024 to 2025. Self nominated. Supported students one to one with debugging, development environment setup and project work.
- Team Member, Coles Group South Morang, January 2025 to February 2026. Customer facing retail role held concurrently with final year study and subsequent freelance work.
- References available on request.