

Ryan Kontos

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Professional Summary

Software engineer specialising in full-stack development (React, TypeScript, Node.js) and AWS serverless, with proven experience shipping offline-first survey tools for CSIRO and solo-publishing 40,000+ Swift app downloads.

Skills

Languages: TypeScript | Python | Swift | SQL | Bash

Frameworks & Libraries: React | Node.js | Express | Prisma | Redux | Jest | Capacitor

Cloud & DevOps: AWS (Lambda, API Gateway, SNS) | Docker | GitHub Actions

Datastores: PostgreSQL | DynamoDB | IndexedDB | S3

Work Experience

Software Engineer, EFN (contracted to CSIRO) — Sydney

Jun 2024–Present

- Delivered offline-first survey features used by researchers nationwide, leveraging IndexedDB and service workers for zero data loss.
- Designed and maintained Node.js/Express/Prisma APIs handling approximately 1,000,000 geospatial records in PostgreSQL with sub-second query times.
- Refactored legacy React class components into hooks-based modules, reducing bundle size by 18% and shortening PR cycle from 5 to 2 days.
- Collaborated directly with CSIRO scientists in sprint planning and retrospectives; shipped MVP two weeks ahead of schedule.
- Onboarded and mentored three junior engineers; overhauled documentation to reduce ramp-up time from three weeks to six days.

Projects

Swift Utility Suite — Sole Developer

2019–Present

- Built and published eight cross-platform SwiftUI apps, amassing 40,000+ downloads and peaking at #3 in AU Utilities.
- Implemented CloudKit sync and StoreKit in-app purchases; sustained a 97% crash-free rate over 12 months.

Calendar Export Service — Solo

2024

- Reverse-engineered a proprietary roster API; built an AWS Lambda + API Gateway service generating real-time iCal feeds with 95th percentile latency <2s at under \$2/month.

AI Viva Question Generator — Capstone, Macquarie University

2024

- Led a four-person team building a React/Express app using GPT-4o; enforced contract-first API design and CI/CD with GitHub Actions.

Education

BEng (Software), Honours, Macquarie University — Sydney

2021–2025

- Distinction average (approximately 80 WAM); Macquarie University Award for Academic Excellence (2023).
- Projects highlighted by teaching staff as exemplars for software design and testing.
- Regularly took lead on team-based assignments; known for clean code and early delivery.
- Informally mentored peers in data structures, back-end design, and debugging.