



TYRELL BLACKBURN

Full-stack Developer

About Me

Full-stack developer with 15+ years across software, marketing, and ecommerce. I specialise in building maintainable solutions that cut costs. Comfortable across the stack from React components to serverless infrastructure.



GitHub [Portfolio](#)



+61 401 092 097



tyrell.blackburn@gmail.com



Melbourne, Australia



English (native),
Mandarin (conversational)

RECENT EDUCATION

- **AWS Certified Cloud Practitioner**
- **Build AI-Powered Apps with OpenAI and Node.js**
- **AWS For Front-End Engineers, v2**
- Introduction to Next.js, v3
- API Design in Node.js, v4
- Introduction to Node.js, v3

The University of Adelaide (2007)

Bachelor of Music Studies (Technology)

Frontend Developer - Sydney Opera House (SOH)
May 2023 – current (2.5 + years)



- Migrated microsite to **AWS Amplify**, saving ~\$10k annually
- Redesigned search UI and indexing, **increasing search usage by 36%**
- Integrated third-party platform **Momentus**, automating venue bookings and **eliminating manual email entry**
- **Avoided unnecessary infrastructure spend** by load testing and proving the proposed solution was insufficient
- Upgraded serverless middleware to **LTS Lambda runtimes** and migrated **AWS SDK v2 → v3**, improving cold-start performance, security, and bundle size
- Resolved domain redirect and **CORS issues** that were breaking video playback and ticket booking
- Deployed Tessitura v16 test environments using **CloudFormation**, enabling safe end-to-end testing before production
- Implemented **CloudFront Function** redirects while preserving bot protection
- Built **Node.js API endpoints** for session management and authentication
- Built **Storybook components (React + Node.js)** with auth state management using React Context
- Automated **Bitbucket Pipelines → Microsoft Teams** notifications using webhooks and Adaptive Cards
- Shipped full-page transitions using the **View Transition API**

Supervising Assistant Editor - Nine Network 2022



Copywriter - Synology 2019 – 2021 (Taipei)



Senior Copywriter - VIPKid 2018 – 2019 (Beijing)



EXPERTISE

Frontend

TypeScript · React · Storybook · HTML5 · CSS3 · Responsive UI · Design systems · Cypress (E2E)

AWS & Cloud

Lambda · API Gateway · CloudFront · Route 53 · Amplify · S3 · CloudFormation / Serverless Framework (IaC) · Secrets Manager · Certificate Manager · CloudWatch · AWS SDK

Backend / CMS

Node.js · RESTful APIs · PHP · Drupal · Shopify

DevOps & Automation

Bash · Bitbucket Pipelines · CI/CD pipelines · Jira Automations · SSL/TLS and DNS management

Testing & Performance

Cypress (E2E/Unit) testing · JMeter · RedLine13 · Jest