



TYRELL BLACKBURN

Full-stack Developer

EXPERIENCE

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