Natalie Ye

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Education

Bachelor of Science (BSc) in Computer Science *Feb 2023 – Nov 2026*
University of New South Wales (UNSW), Sydney, NSW

Technical Skills

Languages: Java, Python, C, JavaScript/TypeScript, Rust, SQL/PostgreSQL
Frameworks and Tools: React, Node.js, Express/Next.js, Fastify, Bootstrap5, MongoDB
Development Tools: Docker, Vercel, Git, SSH, LaTeX, Shell

Experience

Full-Stack Web Developer Intern *June 2025 – March 2026*
Risk Hub, Kirrawee NSW, Remote

- Developed a full-stack centralised user management application using TypeScript and Fastify within a 3-person agile team, serving authentication and subscription features for 200+ enterprise clients.
- Engineered a secure JWT-based authentication flow using the jose library to enable Single Sign-On (SSO) and ensure seamless identity propagation across multiple integrated applications, improving about 30% of authentication efficiency.
- Implemented a mechanism to synchronize real-time subscription status from PostgreSQL, resolving data consistency issues between Stripe payment webhooks and user sessions.

AI Trainer (Language) *July 2024 – May 2025*
Outlier, US, Remote

- Reviewed and refined 300+ AI-generated code and text samples, maintaining consistent quality standards across technical content types.
- Delivered structured feedback reports on code accuracy and semantic correctness, contributing to AI model performance improvements.

Technical Projects

Yelp Camp | *JavaScript, Node.js, Express.js, MongoDB* | Link *Feb 2025 - May 2025*

- Built campground review platform with 6+ RESTful API endpoints supporting complete CRUD operations for users, campgrounds, and reviews.
- Implemented Passport.js authentication with session management, enabling secure user access control for 20+ active test users.
- Developed middleware for error handling and input validation, achieving 40% fewer API response errors during user testing phase.

BitTrickle | *JAVA, UDP, TCP* *Oct 2024 - Nov 2024*

- Developed P2P file-sharing system with 5+ core commands and real-time peer discovery functionality.
- Implemented error handling middleware and input validation, ensuring robust API responses and secure data processing for user interactions.
- Built heartbeat protocol and authentication mechanisms, maintaining 95%+ system uptime with automatic peer reconnection capabilities.

Co-curriculum and Certificates

- **Certificates:**
  Cambridge IGCSE Computer Science, NSW Government Digital Job Simulation, WWCC.
- **Volunteers:** Sydney Royal Easter Show and Vivid Festival - Logistics coordination and visitor engagement, demonstrating strong interpersonal skills in high-volume environments.