

BINGJIA YANG

Full Stack Developer | DevOps | Machine Learning Engineer
GitHub: github.com, LinkedIn: au.linkedin.com, Portfolio: ybj.au.

PROFESSIONAL SUMMARY

Versatile Full Stack Developer with DevOps proficiency, experienced in building and deploying scalable web applications using **React**, **Node.js** and **Next.js**. Skilled in modern development workflows with **Docker**, **CI/CD** pipelines, and cloud platforms such as **AWS EC2**. Delivered multiple demo apps and real-world systems with strong problem-solving and communication skills in cross-functional teams.

SKILLS

Frontend: HTML, CSS, JavaScript, React, TypeScript, Tailwind, Styled Components, A11y, Material UI, Next.js, Three.js,
Backend: Node.js (Express.js), Prisma ORM, Laravel (PHP), Redis, Nginx, Swagger,
Database: MySQL, PostgreSQL (Neon, Supabase), MongoDB (Atlas),
DevOps & Cloud: GitHub, GitLab, Docker, AWS EC2, Render, Netlify, Vercel, GitHub Actions,
Tools: VS Code, Trae, Cursor, Linux (SSH, TigerVNC), Cyberduck, Sanity, Clerk, Resend, Microsoft 365, Better Stack, Rodin,
Collaboration: MS Teams, Lark, Google Docs, Jira, Zoom, Figma,
Testing: React Developer Tools, Chrome DevTools, ESLint, Postman, VoiceOver,
Data & ML: Python, scikit-learn, TensorFlow, PyTorch, Google Colab, Kaggle, Modal,
Knowledge: HTTP/HTTPS, RESTful API, SSR, CI/CD, Git Workflow, Environment Variables, Web Security, Data Migration, Agile.

EMPLOYMENT HISTORY

FULL STACK/MACHINE LEARNING ENGINEER (INTERN) <i>Guangdong Southern Digital Media Technology Co., Ltd.</i>	Jul 2022 - Sep 2022 <i>Guangzhou</i>
--	--

- ◆ Collaborated closely with a team of 5 engineers, iterating based on feedback, and used **Git** for version control and team coordination.
- ◆ Set up WSL for **Linux**-based development, gaining experience with shell commands and **SSH** for remote server operations.
- ◆ Built a full-stack CMS prototype for news using **HTML (Blade)**, **CSS**, **Laravel (PHP)**, and **MySQL**, enabling editorial users to create and manage articles.
- ◆ Optimized API performance by adding **Redis** caching and configuring **Nginx** with SSL as a secure reverse proxy.
- ◆ Developed an AI-powered classification feature using **Python** and **Scikit-learn** to label uncategorized articles with predefined categories, enhancing content categorization accuracy by **20%**, offering a potential solution for automated article classification.
- ◆ Received **high praise** from the lead engineer for my contributions. I decided not to extend the internship in order to pursue further studies in Australia.

PROJECTS

AUTOMATED BOOKING SYSTEM FOR UNSW MUSEUM OF HUMAN DISEASE

Role: Product Owner & Developer

Collaboratively building a secure, modern booking and CRM system for UNSW Museum of Human Disease to replace its outdated platform, automate workflows, and reduce manual workload for staff.

Contributions

- Led client communication by scheduling and following up meetings via **MS Teams**
- Used **Git** for version control and **Jira** to manage tasks, track progress, and coordinate team workflow
- Used **Figma** for interface storyboarding to map user flow and design booking interactions
- Bridged **React** frontend and **Node.js** backend integration for seamless booking workflow
- Built the Booking page using **MUI Stepper** for multi-step form and **FullCalendar** for time slot selection and visualization
- Fixed bugs in Node.js controller and **Prisma** logic to prevent booking creation errors
- Updated **PostgreSQL** schema via Prisma to support new booking fields and nullable constraints
- Switched database from **Supabase** to **Neon** due to connectivity issues, and guided the team through reconfiguration
- Containerized the full-stack application with **Docker Compose**, and configured **Nginx** as a reverse proxy for team delivery

BINGJIA YANG

Full Stack Developer | DevOps | Machine Learning Engineer

GitHub: github.com, LinkedIn: au.linkedin.com, Portfolio: ybj.au.

PROFESSIONAL SUMMARY

Versatile Full Stack Developer with DevOps proficiency, experienced in building and deploying scalable web applications using **React**, **Node.js** and **Next.js**. Skilled in modern development workflows with **Docker**, **CI/CD** pipelines, and cloud platforms such as **AWS EC2**. Delivered multiple demo apps and real-world systems with strong problem-solving and communication skills in cross-functional teams.

SKILLS

Frontend: HTML, CSS, JavaScript, React, TypeScript, Tailwind, Styled Components, A11y, Material UI, Next.js, Three.js,
Backend: Node.js (Express.js), Prisma ORM, Laravel (PHP), Redis, Nginx, Swagger,
Database: MySQL, PostgreSQL (Neon, Supabase), MongoDB (Atlas),
DevOps & Cloud: GitHub, GitLab, Docker, AWS EC2, Render, Netlify, Vercel, GitHub Actions,
Tools: VS Code, Trae, Cursor, Linux (SSH, TigerVNC), Cyberduck, Sanity, Clerk, Resend, Microsoft 365, Better Stack, Rodin,
Collaboration: MS Teams, Lark, Google Docs, Jira, Zoom, Figma,
Testing: React Developer Tools, Chrome DevTools, ESLint, Postman, VoiceOver,
Data & ML: Python, scikit-learn, TensorFlow, PyTorch, Google Colab, Kaggle, Modal,
Knowledge: HTTP/HTTPS, RESTful API, SSR, CI/CD, Git Workflow, Environment Variables, Web Security, Data Migration, Agile.

EMPLOYMENT HISTORY

FULL STACK/MACHINE LEARNING ENGINEER (INTERN) <i>Guangdong Southern Digital Media Technology Co., Ltd.</i>	Jul 2022 - Sep 2022 <i>Guangzhou</i>
--	--

- ◆ Collaborated closely with a team of 5 engineers, iterating based on feedback, and used **Git** for version control and team coordination.
- ◆ Set up WSL for **Linux**-based development, gaining experience with shell commands and **SSH** for remote server operations.
- ◆ Built a full-stack CMS prototype for news using **HTML (Blade)**, **CSS**, **Laravel (PHP)**, and **MySQL**, enabling editorial users to create and manage articles.
- ◆ Optimized API performance by adding **Redis** caching and configuring **Nginx** with SSL as a secure reverse proxy.
- ◆ Developed an AI-powered classification feature using **Python** and **Scikit-learn** to label uncategorized articles with predefined categories, enhancing content categorization accuracy by **20%**, offering a potential solution for automated article classification.
- ◆ Received **high praise** from the lead engineer for my contributions. I decided not to extend the internship in order to pursue further studies in Australia.

PROJECTS

AUTOMATED BOOKING SYSTEM FOR UNSW MUSEUM OF HUMAN DISEASE

Role: Product Owner & Developer

Collaboratively building a secure, modern booking and CRM system for UNSW Museum of Human Disease to replace its outdated platform, automate workflows, and reduce manual workload for staff.

Contributions

- Led client communication by scheduling and following up meetings via **MS Teams**
- Used **Git** for version control and **Jira** to manage tasks, track progress, and coordinate team workflow
- Used **Figma** for interface storyboarding to map user flow and design booking interactions
- Bridged **React** frontend and **Node.js** backend integration for seamless booking workflow
- Built the Booking page using **MUI Stepper** for multi-step form and **FullCalendar** for time slot selection and visualization
- Fixed bugs in Node.js controller and **Prisma** logic to prevent booking creation errors
- Updated **PostgreSQL** schema via Prisma to support new booking fields and nullable constraints
- Switched database from **Supabase** to **Neon** due to connectivity issues, and guided the team through reconfiguration
- Containerized the full-stack application with **Docker Compose**, and configured **Nginx** as a reverse proxy for team delivery

BINGJIA YANG

Full Stack Developer | DevOps | Machine Learning Engineer

GitHub: github.com, LinkedIn: au.linkedin.com, Portfolio: ybj.au.

PROFESSIONAL SUMMARY

Versatile Full Stack Developer with DevOps proficiency, experienced in building and deploying scalable web applications using **React**, **Node.js** and **Next.js**. Skilled in modern development workflows with **Docker**, **CI/CD** pipelines, and cloud platforms such as **AWS EC2**. Delivered multiple demo apps and real-world systems with strong problem-solving and communication skills in cross-functional teams.

SKILLS

Frontend: HTML, CSS, JavaScript, React, TypeScript, Tailwind, Styled Components, A11y, Material UI, Next.js, Three.js,
Backend: Node.js (Express.js), Prisma ORM, Laravel (PHP), Redis, Nginx, Swagger,
Database: MySQL, PostgreSQL (Neon, Supabase), MongoDB (Atlas),
DevOps & Cloud: GitHub, GitLab, Docker, AWS EC2, Render, Netlify, Vercel, GitHub Actions,
Tools: VS Code, Trae, Cursor, Linux (SSH, TigerVNC), Cyberduck, Sanity, Clerk, Resend, Microsoft 365, Better Stack, Rodin,
Collaboration: MS Teams, Lark, Google Docs, Jira, Zoom, Figma,
Testing: React Developer Tools, Chrome DevTools, ESLint, Postman, VoiceOver,
Data & ML: Python, scikit-learn, TensorFlow, PyTorch, Google Colab, Kaggle, Modal,
Knowledge: HTTP/HTTPS, RESTful API, SSR, CI/CD, Git Workflow, Environment Variables, Web Security, Data Migration, Agile.

EMPLOYMENT HISTORY

FULL STACK/MACHINE LEARNING ENGINEER (INTERN) <i>Guangdong Southern Digital Media Technology Co., Ltd.</i>	Jul 2022 - Sep 2022 <i>Guangzhou</i>
--	--

- ◆ Collaborated closely with a team of 5 engineers, iterating based on feedback, and used **Git** for version control and team coordination.
- ◆ Set up WSL for **Linux**-based development, gaining experience with shell commands and **SSH** for remote server operations.
- ◆ Built a full-stack CMS prototype for news using **HTML (Blade)**, **CSS**, **Laravel (PHP)**, and **MySQL**, enabling editorial users to create and manage articles.
- ◆ Optimized API performance by adding **Redis** caching and configuring **Nginx** with SSL as a secure reverse proxy.
- ◆ Developed an AI-powered classification feature using **Python** and **Scikit-learn** to label uncategorized articles with predefined categories, enhancing content categorization accuracy by **20%**, offering a potential solution for automated article classification.
- ◆ Received **high praise** from the lead engineer for my contributions. I decided not to extend the internship in order to pursue further studies in Australia.

PROJECTS

AUTOMATED BOOKING SYSTEM FOR UNSW MUSEUM OF HUMAN DISEASE

Role: Product Owner & Developer

Collaboratively building a secure, modern booking and CRM system for UNSW Museum of Human Disease to replace its outdated platform, automate workflows, and reduce manual workload for staff.

Contributions

- Led client communication by scheduling and following up meetings via **MS Teams**
- Used **Git** for version control and **Jira** to manage tasks, track progress, and coordinate team workflow
- Used **Figma** for interface storyboarding to map user flow and design booking interactions
- Bridged **React** frontend and **Node.js** backend integration for seamless booking workflow
- Built the Booking page using **MUI Stepper** for multi-step form and **FullCalendar** for time slot selection and visualization
- Fixed bugs in Node.js controller and **Prisma** logic to prevent booking creation errors
- Updated **PostgreSQL** schema via Prisma to support new booking fields and nullable constraints
- Switched database from **Supabase** to **Neon** due to connectivity issues, and guided the team through reconfiguration
- Containerized the full-stack application with **Docker Compose**, and configured **Nginx** as a reverse proxy for team delivery