

# Gia Hanh Nguyen

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## Experience

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### Full Stack AI Trainer, DataAnnotation – Remote Part-Time

April 2024 – Present

- Tested multimodal AI's ability to generate code in projects using full-stack frameworks like React and Node.js, and Python scripting for data analysis and visualization
- Debugged and edited output. Delivered structured feedback to refine model-generated code for accuracy, clarity, and adherence to rubric standards, identifying edge cases to improve output quality

### Full Stack Developer, Human's Hub – Remote Contract

June 2024 – December 2024

- Designed and developed a media room reservation system with a React-based interactive seat selection interface, Node.js-powered RESTful APIs, and a PostgreSQL database schema, enabling booking, payment processing, and real-time seat availability updates
- Deployed the system on Heroku with HTTPS-secured APIs, Heroku config vars for sensitive credentials, and parameterized queries to prevent SQL injection
- Integrated PayPal and Stripe payment gateways into the Node.js backend using SDKs and webhooks for secure, real-time credit card transactions
- Built an admin dashboard with React, JWT authentication, payment/refund management, booking oversight, and Nodemailer-powered email notifications to reduce administrative workload
- Conducted comprehensive testing using Jest, React Testing Library, Supertest, and Cypress for frontend, API, and end-to-end validation, including payment integrations with PayPal Sandbox and Stripe Test Mode

### Web Developer, The Royal Alberta College – AB Full-Time

August 2022 – April 2024

- Developed and maintained two e-learning platforms with WooCommerce and LearnDash, supporting 40+ courses and 12,000+ student enrollments
- Integrated AWS Lambda for partner registration and data syncing, decoupling from WordPress, resulting in a 40% surge in partner course registrations. Configured IAM roles and AWS SDK for EC2-hosted WordPress instances to trigger Lambda via registration hooks, retrieve API credentials from Secrets Manager at runtime, and allow autoscaling with registration surges
- Enhanced AWS infrastructure with load balancing and auto-scaling to ensure optimal performance during peak traffic, and deliver static assets in structured S3 buckets via CloudFront. Led site migrations achieving seamless transitions with zero downtime
- Built a custom React LearnDash management dashboard to track enrollments, monitor completions, and generate downloadable course certificates and reports. Enqueued React to WordPress admin pages and implemented SQL queries for efficient data retrieval

## Skills

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- Frontend: React, Angular, Material-UI, HTML, CSS, TypeScript, JavaScript
- Backend: Node.js, Express.js, PostgreSQL, Firebase, REST APIs, PHP
- DevOps/Cloud: AWS (EC2, S3, Lambda, IAM, CloudFront), Heroku
- Testing/Tools: Cypress, Jest, React Testing Library, Supertest, Postman
- Other: WordPress, WooCommerce, LearnDash, Stripe SDK, PayPal SDK, Git

## Education

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### University of British Columbia – B.Sc. in Computer Science

May 2022

- GPA: 3.80/4.00 | Awarded Deputy Vice-Chancellor Scholarship

## Projects

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### CyclopediApp

[github.com/lilmergo/CyclopediApp](https://github.com/lilmergo/CyclopediApp)

- Built a Progressive Web Application (PWA) using Angular and Ionic, enabling users to browse interactive and annotated articles, track reading progress, and log and score their environmental activities with the Eco Tracker feature
- Integrated Firebase for hosting, real-time database management, user authentication, article management, and progress tracking through Angular services and API calls

### Social Media Clone - PawBook

[github.com/lilmergo/PawBook](https://github.com/lilmergo/PawBook)

- Created a social media platform for pets using React and Material-UI for modern, responsive styling
- Implemented key features including posts with attachments, likes, nestable comments, user profiles with add friends functionality, and save and view saved posts
- Utilized Firebase with a NoSQL database for data storage and Firestore for attachment storage