MIA NGUYEN

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EDUCATION

University of California, Irvine | *Bachelor of Science in Computer Science* *June 2025*
GPA**:** 4.00/4.00 | Honors**:** Deans Honor List (all quarters)
Coursework: Data Structures, Database Management, Operating System, Machine Learning, UX/UI

Los Angeles Pierce College | *Associate of Mathematics, Associate of STEM* *June 2023*
GPA**:** 4.00/4.00 | Honors**:** President's Honors, Dean's List (all semesters)

SKILLS

Technical languages: JavaScript, Python, Java, C++, C#, SQL, HTML, CSS
Frameworks / Technologies: Node.js, React.js, Redux, Next.js, Express.js, Flask, ASP .Net, Git, AWS, Docker
Bilingual: Vietnamese (native), English
Certificates: CodePath Technical Interview Prep (TIP 102)

WORK EXPERIENCE

Student Web Developer (Part-Time) | ***University of California, Irvine*** *Nov 2023 - Current*
- Developed and enhanced ASP.NET-based CRM web systems for graduate students and staff, improving interview booking flow and user experience.
- Optimized SQL query performance by redesigning data schemas and stored procedures, ensuring accuracy and speed in search functionality.
- Created cross-platform HTML email templates for MBA students, compatible with Outlook, Gmail, and other major email clients.

Software Engineer Intern | ***Esync Technologies*** *Dec 2023 – Mar 2024*
- Contributed to research and development in quantum computing using Python and frameworks such as Qiskit, PennyLane, Scikit-Learn, and PyTorch.
- Collaborated on the design and evaluation of quantum machine learning models to solve optimization problems in simulation environments.

Front-end Engineer Intern | ***SuperWorld*** *Jan 2025 – April 2025*
- Built user-centric React applications using Material UI to create responsive, accessible, and scalable components, with global state managed via Redux Toolkit.
- Collaborated closely with designers and backend teams to integrate Figma designs and API structures into high-quality, production-ready UIs.
- Revamped the company's landing page in Webflow, achieving a 60% increase in user engagement.

PROJECTS

SuperWorld Map *(React.js, Redux toolkit, Mapbox GL, Material UI)*
- Built an interactive mapping platform that integrates geospatial data with user-generated content, also enabling users to buy, sell, and manage virtual properties and NFTs.
- Ensured proper API integration and optimized performance by prioritizing pre-rendering, resulting in a 30% reduction in page load time.
- Followed React best practices to organize project structure and maintain clean, well-documented, and scalable code.

Fablix Movie *(Java, Apache Tomcat, JDBC, Jasypt, JavaScript, Tailwind CSS, MySQL, Docker, AWS)*
- Developed a full-featured movie ticketing web application with RESTful API integration, featuring separate client and employee interfaces and supporting bulk data import via XML parsing.
- Optimized data performance and security by using stored procedures, prepared statements, indexing, and batch query execution to improve data fetching speed and prevent SQL injection.
- Strengthened application security using Google ReCaptcha and encrypted user credentials using Jasypt.
- Deployed the application on an AWS EC2 instance with Docker for scalable, containerized hosting.

Zot Search *(Python, Flask, JavaScript, React, MySQL)*
- Designed and implemented backend logic to tokenize and rank 10,000+ websites using TF-IDF scoring and cosine similarity for relevance-based search.
- Optimized query performance to handle large datasets efficiently, delivering fast and accurate search results.

Zot Quest *(JavaScript, Tailwind CSS)*
- Built an interactive map application with real-time geolocation using Leaflet.js, enabling users to explore and save UCI campus attractions through a custom "bucket list" feature.
- Awarded 3rd Place at the UCI ZotHacks 2023, competing against over 100 participants for innovation and user experience.