

# Nhan Nguyen

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## Education

University of California, Irvine | Irvine, CA

Bachelor of Science in Informatics (June 2025)

**Relevant Coursework:** Design and Analysis of Algorithms, Information Retrieval, Computer Networks, Principles of Operating Systems, Concept of Programming Languages, Software Design, Human-Computer Interaction, Project Management, Project in Health Informatics, User Interaction Software, Ubiquitous Computing, Data Analytics

## Skills

- **Programming Languages:** Python, Java, C++, C, TypeScript, JavaScript, SQL, HTML, CSS
- **Frameworks:** NodeJS, ReactJS, Angular, Ionic
- **Tools:** UML diagram, C4 diagrams, VSCode, Vim, Git, Eclipse, BlueJ, Figma
- **Concepts:** Data Structures & Algorithms, API Development, RESTful Services, Cloud Integration, UI/UX Design, Agile Methodologies, Software Testing, and computer hardware troubleshooting
- **Communication:** Native Proficiency in both English and Vietnamese

## Experience

**Frontend Lead - Imagination Canvas**

**Balnce.ai, Irvine, CA (Feb 2025 - June 2025)**

- Independently learned and built the frontend from design to implementation using the ReactJS framework, creating a responsive and user-friendly interface, tailored to the client company's theme.
- Designed the backend architecture to optimize load time and conserve token cost by more than 30%.
- Integrated OpenAI's API for interactive AI-driven features.
- Delivered weekly progress updates and product demos directly to the cofounders.

**Technician**

**USAV Solutions, Huntington Beach, CA (Jun 2022 - Jan 2024)**

- Conducted diagnostic testing on hundreds of devices monthly, identifying and repairing failures.
- Designed an assembly-line process, reducing operational time by 30–40%.
- Maintained inventory databases to ensure the availability of components.
- Performed precision soldering for circuit assembly and repair.

**Tutor**

**California Talent Collaboration, Santa Ana, CA (Oct 2025)**

- Provided individualized instruction in STEM subjects for elementary students (grades 1–5), promoting academic growth and problem-solving skills
- Implemented effective behavioral management strategies to maintain engagement and focus during lessons
- Delivered technical support to ensure smooth use of digital learning tools and platforms

**Food Service worker**

**LA Christmas Night Market, Los Angeles, CA (Oct 2024-Dec 2024)**

- Operated and managed the food booth independently, serving 100–300+ guests nightly and up to 600+ on weekends
- Handled two industrial fryers simultaneously while maintaining food quality and safety standards
- Prepared ingredients, cooked, and served a variety of menu items in a fast-paced, high-volume environment
- Delivered efficient and friendly customer service while managing long lines and peak demand periods
- Maintained booth organization, cleanliness, and compliance with health and safety guidelines

**Volunteer**

**Blessed Sacrament Church, Westminster, CA (Oct 2019 - Feb 2022)**

- Managed setup, configuration, and troubleshooting for AV equipment at large community events.
- Led technical teams during 4+ major events, ensuring smooth technical execution.
- Optimized event logistics and resource allocation, improving efficiency by 30%.

## Projects

**Lisps Compiler | Common Lisp**

- Developed an interpreter for Common Lisp, applying recursion, parsing algorithms, and compiler design principles.
- Enhanced debugging workflows and demonstrated structural patterns in programming language decomposition.

**Search Engine (Group Project) | Python**

- Built a web crawler and ETL pipeline to collect, process, and store a searchable corpus.
- Applied lemmatization and TF-IDF scoring to improve query accuracy.
- Developed a Google/Bing-style UI connected to a backend retrieval service.
- Managed Agile sprints for work distribution, data processing, and debugging.

**Custom Priority Queue | C++**

- Engineered a custom scoring algorithm for prioritized data retrieval, outperforming standard library implementations.
- Applied to search and optimization problems, such as the word ladder puzzle, to achieve reduced runtime.

**Chatting Application | Python**

- Built a real-time messaging app with local credential storage and persistent chat logs.
- Enabled connections via shared server and integrated APIs for weather updates and song recommendations.

## Extracurriculars

- Computer building (2020-Present), Keyboard building (2022-Present), Badminton (2023-Present)