

# NGHI NGUYEN

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nghixnguyen.github.io

**OBJECTIVE** Seeking a challenging position in the areas of IT and software engineer

**EDUCATION** B.S. in **Computer Science**, GPA: 3.87, Dean's List 2024. San Francisco State University, CA

Dec 2024

## EXPERIENCE

### Dazzle Studio

Remote Boston, MA

Front-End Developer

Jun 2024 – Jan 2025

- Developed responsive web application for beauty salon to showcase services and information, using **HTML**, **JavaScript**, and **jQuery**
- Optimized the online appointment booking system, improving the user experience and driving a **50%** increase in scheduling efficiency
- Maintained and updated website using object-oriented programming principles to ensure optimal performance and user satisfaction

### San Francisco State University

San Francisco, CA

Teaching Assistant

Jan 2024 – Dec 2024

- Led weekly 3-hour sessions for 11 students, focusing on core programming concepts such as loops, conditional algorithms, and object-oriented programming in **Java**
- Ensured all students excelled in their coursework by offering help and constructive feedback on programming skills
- Delivered interactive lessons and personalized guidance, resulting in a **100%** pass rate and **72%** of students achieving A grade

### Marshall Retail Group

San Francisco, CA

Customer Service Supervisor

May 2022 – Jan 2023

- Supported customers' inquiries, purchase products and services as Session Sale Leader, achieve the company's sales goals of 70%

## PROJECTS

### Discord Bot for Manufacturing Management | GitHub

- Built **Python**-powered Discord bot simulating AI manager for automotive manufacturing, providing manufacturers and distributors with insights into product quantity
- Designed **MySQL** database to streamline inventory, supplier, and distributor data, improving supply chain efficiency
- Deployed the bot on **AWS RDS** for seamless, scalable cloud access, enabling real-time interaction and data management

### Social Media Web Application | GitHub

- Created a social media website for college students, staff, and professors, focusing on back-end development by using **AWS** to host server and **MySQL** to store and organize user data and content, ensuring data reliability
- Secured and standardized interactions between users and system when retrieving data by **RESTful API**
- Collaborated with team of six, following software development process, like **Agile/Scrum** and **Test-driven** method

### Tank Battle Game | GitHub

- Developed a two-player tank battle game with **Java** programming, showcasing proficiency in **OOP** by implementing separated classes for core game mechanics including tank movement, collision detection, animations, and sounds
- Optimized abstract classes and interfaces to reduce more than **50%** risk of class pollution
- Created user interface (UI) with CardLayout-based panels for gameplay screens, enhancing responsive and interactive user experiences

### Full-Stack Web Application | GitHub

- Designed and implemented a video-sharing platform for **1000+** users with robust backend through **Express.js** and **Node.js**
- Employed **MySQL** database with express-mysql-session to securely store user information and session data
- Used **bcrypt** for password hashing to enhance user data security and privacy

## TECHNICAL SKILLS

- Languages: Java, JavaScript, C/C++, C#, Python, HTML/CSS, SQL
- Internet: HTTP, SSL, Dynamic HTML, XHTML
- Frameworks & Libraries: MySQL, jQuery, React, Node.js, Express.js, AWS, RESTful API, JSON
- Platform: Git, IntelliJ, VSCode, Eclipse, PeopleSoft, MySQL, PostgreSQL, VirtualBox, Windows, Unix, Linux, JRun, CUDA, Docker
- Business: MS Office Suite, Excel programing

## RELEVANT COURSEWORKS

### Operating System

- Worked with Linux commands about concepts in operating systems: concurrent processes, file system, memory management
- Employed advanced **C** programming techniques and Unix system calls to interacts with operating system and gained experience in addressing challenges related to deadlock, synchronization techniques, and distributed processing

### Software Engineering

- Designed software applications following object-oriented techniques, including encapsulation, inheritance, and polymorphism
- Improved problem-solving skills and code algorithms by continuous debugging and testing