NICHOLAS WONG

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(516) 225 - 9801 | Availability: January - July 2025

EDUCATION

Northeastern University, Boston, MA   **September 2022 - Present**
Khoury College of Computer Sciences   **Expected: May 2026**
Candidate for Bachelor of Science in Computer Science   **GPA: 3.2/4.0**

Coursework: Computer Systems, Algorithms and Data, Artificial Intelligence, Object Oriented Design, Fundamentals of Computer Science 1 & 2, Discrete Structures

Activities: Software Engineer at Electric Racing Club, Northeastern Division 1 Basketball Student Manager

TECHNICAL SKILLS

Languages: Python | Java | JavaScript | HTML/CSS | TypeScript
Frameworks: React | Node.js | Vite | Flask | Pygame | NumPy | Pandas
Other: Git | GitHub | Docker | SQLite

EXPERIENCE

Northeastern Electric Racing, Boston, MA   **January 2024-Present**
Software Developer
- Integrate and maintain a full-stack application for a nationally award-winning race car team, processing real-time car data to assist the engineering team in performance optimization
- Implement back-end services using TypeScript, Node.js, Docker, and PostgreSQL to handle data intake and storage, improving system scalability and performance
- Manage the team website's tracking project progress, deadlines, and finances for 300+ club members across 3 teams

J.P. Morgan, New York, NY   **July-August 2024**
Software Engineer
- Established a local development environment by downloading and configuring essential files, and dependencies
- Diagnosed and resolved repository issues to ensure the web application functioned correctly
- Utilized JPMorgan Chase's open-source library, Perspective, to develop a real-time data feed graph for enhanced trader monitoring and decision

Elegant II Valet, LONG BEACH NY   **Summers 2023-2024**
Assistant Manager
- Efficiently managed parking and retrieval of over 100 vehicles per hour during high-traffic events, ensuring smooth operations and exceptional customer service
- Collaborated closely with event organizers, wedding planners, and restaurant staff to coordinate parking logistics, ensuring seamless operations and guest satisfaction

PROJECTS

Battleship AI Agent | *Python, SARSA*, Q-learning   **December 2024**
- Engineered an AI-powered Battleship agent to strategize and execute moves based on gameplay heuristics
- Formulated Q-learning and SARSA algorithms to develop decision-making strategies, improving win rate by 45%
- Optimized agents through 60,000+ simulation episodes in controlled and randomized environments, employing metrics such as accuracy distribution and average performance to validate effectiveness

Personal Portfolio Website | *React, JavaScript, HTML/CSS, Vite*   **July 2024**
- Designed a responsive personal portfolio website using React and Vite, showcasing projects and skills
- Implemented interactive UI components, enhancing user experience and engagement across various devices
- Utilized modern front-end technologies and best practices to ensure fast load times and seamless navigation
- Deployed the website using a continuous integration pipeline, ensuring 99.9% uptime and smooth updates

Video Management API | *Python, Flask, SQLite*   **April 2024**
- Developed a RESTful API using Flask and Flask-RESTful for managing video data stored in a SQLite database
- Adopted CRUD operations for video resources, utilizing HTTP methods to support over 500 requests
- Leveraged Flask's development server for local testing and debugging, ensuring API functionality and responsiveness

INTERESTS

Basketball | Snowboarding | Tennis | Pokémon | Skiing | Traveling | Racing | Cars