NA HUYNH

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EDUCATION

George Mason University | Fairfax County, VA — Expected 2026
Master's of Computing, Computer Science
- Entering Aug. 2026 as part of the Bachelor's to Accelerated Masters Program

George Mason University | Fairfax County, VA — Expected May 2025
Bachelor of Computing, Computer Science — GPA: 3.9

WORK EXPERIENCE

Magnus Chess Academy | Fairfax, VA — Sep. 2024 - Present
Chess Coach
- Coached beginner players, advancing 30% of students to intermediate ranking within the first year.
- Created customized coaching plans with game analysis and 18 weekly assigned matches for 3 after-school programs.

Mathnasium | Burke, VA — Jul. 2021 - Aug. 2023
Math Instructor
- Delivered tailored lesson plans for large classes and one-on-one tutoring, increasing 90% of students' school grades.
- Assessed progress and fostered strong parent-teacher relationships to improve student engagement and retention.

SELECTED PROJECTS

GameLoom | Java, JavaFX, CSS – *CS321: Software Engineering* — Aug. 2024 – Present
- Developed a cross-platform application that manages game libraries, exemplifying data structures and algorithms.
- Designed user-oriented visualization of games organized by platform, title, and year, showcasing SQL relation theory.
- Implemented automated features to streamline user workflows, enhancing platform usability for 15 test cases.
- Managed a development team by conducting code reviews, testing, and deploying prototypes in an Agile environment.

TeaDo Store | Python (Pandas/NumPy), Arena – *SYST335: Discrete Systems Simulation Modeling* — Jan. 2024 – Apr. 2024
- Designed a scheduling algorithm to solve bottlenecks in a bubble tea store, which reduced customer balking by 20% under peak conditions in repeated simulations of a custom M/M/1 queueing model built in Arena.
- Collaborated with a business to analyze customer needs and produced an interactive model that provided maximum industry value. Users can assess processes by testing workflow changes and viewing provided analytics visualization.
- Modeled customer behavior and service time using data analysis and Python queues in probability distribution analysis.

Traffic Management Simulation | C – *CS571: Operating Systems* — Sep. 2024 – Aug. 2024
- Implemented a stoplight program that manages a three-way intersection using synchronization primitives.
- Modified OS161 system to improve traffic flow by building a priority-based functionality supported by documentation.
- Optimized throughput by enabling thread concurrency, exceeding performance expectations in 285 test cases.

Weather Recommendations | Python – *Hackathon: GMU PatriotHacks* — Oct. 2023
- Leveraged API calls to analyze 8 hours of national weather forecast data from specific weather stations.

LEADERSHIP

AnNam Swim Club | Fairfax, VA — Sep. 2020 - Present
Senior Advisor and Swim Coach – Previous Position: President
- Led a team of 15+ students in planning swim meets and programs to promote teamwork and cultural awareness.
- Coached younger athletes (11 and under) in swimming techniques and sports performance.

SKILLS

- **Programming Languages**: Java | C | Python
- **Technologies/Frameworks**: Microsoft Office | Jira | Git/Github | Advanced Excel: Optimization | Linux