ZACHARY JONES

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EDUCATION

UNIVERSITY OF NORTH TEXAS, Bachelors, Information Technology (May 2025)

- Relevant Coursework: Data Structures and Algorithms, Systems Design, IT Project Management, Human Computer Interfaces, Database Systems, Enterprise Systems Architecture, Technical Writing
- 3.72 GPA, 2x President's List, 2x Dean's List
- Software and Game Programming Specialization
- Nationally awarded member and officer of the UNT Debate Team

PROFESSIONAL EXPERIENCE

UNIVERSITY OF NORTH TEXAS – Denton, TX (August 2023 – Present)

Student Media Director

- Orchestrated the development of an **online presence** for the North Texas debate team utilizing the **Adobe Creative Cloud** and **website programming** to improve website functionality and accessibility.
- Employed technology solutions to **optimize event promotion and management** of public events for the Communications department and UNT Debate, significantly **expanding community outreach** and **fundraising**
- Instituted contemporary **web and social media design techniques** in the creation of public relations materials ensuring a modern online presence that effectively conveyed the organization's brand identity.

COPPELL ISD – Coppell, TX (August 2022 – June 2023)

Assistant Instructor

- Designed and delivered engaging lesson plans and educational materials to high school students fostering stronger **research, communication, and software skills**.
- Collaborated with colleagues to implement and research effective teaching methodologies, showcasing teamwork and adaptability in a professional environment.
- Leveraged effective **communication techniques** to facilitate discussions, answer questions, and provide guidance to students from a diverse range of social situations.

PROJECTS

SHELL INTERPRETER

- Collaboratively designed and developed a shell interpreter in C demonstrating proficiency in **low-level programming** and **system call interaction**.
- Implemented core shell functionalities, including **command parsing, thread-safe process execution, pipelining, and I/O redirection**, while adhering to Unix-like shell standards.
- Gained insights into systems programming and the Unix environment, furthering proficiency of software development in **resource-constrained systems**.

RPS ALGORITHM EVALUATOR

- Cooperated with two peers using the **Agile** project management methodology to develop an application that aggregates up to **10000** RPS games between competing algorithms—comparing **algorithm efficiency** across a litany of cases
- Created structured **project management** documents including **UML** diagrams, a **Risk Matrix & Management** plan, and a **Work Breakdown Structure** (WBS), to guide the project's development
- Worked with **C++ memory management** techniques, **advanced data structures**, and **algorithm design**, highlighting critical thinking and problem-solving skills.

SKILLS/LANGUAGES

C++ · C · Python · Git · SQL · NodeJS · Godot · UNIX/Bash · Adobe Creative Cloud

REFERENCES

Dr. Brian Lain · University of North Texas · Brian.Lain@unt.edu

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