

ZACHARY JONES

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CAREER PROFILE

Dedicated Information Technology student at the University of North Texas graduating in May 2025 from an ABET accredited program. Seeking entry-level opportunities. Skilled in a variety of coding languages, project management methodologies, and cloud services.

EDUCATION

UNIVERSITY OF NORTH TEXAS, Bachelor of Arts, Information Technology (May 2025)

3.8 GPA, 3x President's List, 3x Dean's List

2024 National Runner-up in Intercollegiate Debate

Relevant Coursework: Data Structures and Algorithms, Systems Design, IT Project Management, Human Computer Interfaces, Database Systems, Enterprise Systems Architecture, Network Administration, Cybersecurity Foundations

SKILLS/LANGUAGES

C++ · C · Python · PostgreSQL · JavaScript · UNIX/Bash · Git · Microsoft Office Suite · AWS · GCP · IT Project Management

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**.

ROCK-PAPER-SCISSORS TOURNAMENT WEB APP

- Independently designed and developed a relational database using **PostgreSQL** to manage game data, incorporating **stored procedures and triggers** for maintaining data integrity, and performing **input validation** for data consistency.
- Deployed the database on **Google Cloud Platform**, leveraging **virtual machines for scalable and reliable hosting**, and implemented robust **user authentication** protocols to ensure database security.
- Developed a dynamic web application using **PHP** for efficient data manipulation and querying, enhancing user interaction with the database and streamlining comprehensive tournament management.

MAPIT! GIS CLASS SCHEDULER WEB APPLICATION

- Cooperated with three peers using the **Agile** project management methodology to develop a web application using the **Leaflet JS library** and the **Google Maps API**.
- Created structured **project management** documents including **UML diagrams**, a **Risk Management plan**, and a **Work Breakdown Structure (WBS)**, to guide the project's development and involve stakeholders.
- Demonstrated expertise in web development and cloud services, leveraging **AWS Amplify** for hosting and authentication, and implemented features with **JavaScript**, **HTML**, and **CSS**.

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**.

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**.