

ZACHARY JONES

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CAREER PROFILE

Established software engineering professional from the University of North Texas. 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

React · TypeScript · C# · C++ · Git · PostgreSQL · JavaScript · UNIX/Bash · Microsoft Office Suite · IT Project Management

PROFESSIONAL EXPERIENCE

PAYCOM SOFTWARE– Irving, TX (June 2025 – Present)

Full-Stack Developer

- Designed, developed, and maintained scalable enterprise web applications using **React** on the front end and **C#** and **PHP** for backend logic and API development, ensuring seamless integration across services.
- Collaborated with UX designers and product managers to translate business requirements into intuitive, responsive, and accessible user interfaces, improving client satisfaction and usability metrics.
- Built and optimized **RESTful APIs** and database interactions to support high-performance data processing and reporting, reducing query times and improving overall application responsiveness.
- Participated in **Agile development cycles**, performing code reviews, writing unit and integration tests, and contributing to continuous improvement of development workflows and CI/CD pipelines.
- Identified and resolved performance bottlenecks, implemented security best practices, and documented key architectural decisions to support long-term scalability and maintainability of the platform.

UNIVERSITY OF NORTH TEXAS – Denton, TX (August 2023 – May 2025)

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, fundraising**, and public event attendance.

PROJECTS

CYBERSECURITY TEACHING TOOL

- Utilized the **Agile** project management methodology to develop a web application with a **Flask** backend that generated cybersecurity teaching tools.
- 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** for hosting and authentication, **Docker** for containerization, **JavaScript**, **HTML**, and **CSS**.

SHELL INTERPRETER

- Collaboratively designed and developed a shell interpreter in C demonstrating proficiency in **low-level programming**, **system call interaction**, and **backend testing**.
- 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**.