

Zayne Lumpkin

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Education

University of Texas at Dallas

MS in Computer Science

4.0 GPA

August 2022 - May 2024

- Dual concentrations in traditional computer science and interactive systems

University of Texas at Dallas

BS in Computer Science

4.0 GPA

August 2020 - May 2023

- Graduated with quadruple honors: summa cum laude, Collegium V Honors Program, National Merit Scholars Program, & Phi Kappa Phi national honor society
- Earned degree in three years while maintaining a perfect GPA and awarded Dean's List every semester

Work Experience

Paycom

Software Developer

Dallas, TX

December 2023

- Creating scalable, maintainable systems for dynamic configuration and dataflow infrastructure, and UI for interacting with them
- Designing internal domain-specific languages and writing compilers for them
- Using React, TypeScript, C#, & PHP to write production code affecting millions of users

Paycom

Software Development Intern

Dallas, TX

May 2023 - December 2023

- Architected and implemented complex, interactive React components and systems for specialized usage with NextJS and Material UI
- Awarded MVP for software development interns, out of 193

UT Dallas Student Government

Technology Committee Chairman

Richardson, TX

May 2022 - May 2023

- Coordinated and organized the largest hackathon in the Central Time zone, HackUTD
- Managed a small team which oversaw a \$120,000 budget, planning and executing large-scale technological events and demonstrations

Association for Computing Machinery

Machine Learning Researcher

Richardson, TX

December 2021 - May 2022

- Headed a team of four researchers using Python, Flask, TensorFlow, Jupyter Notebooks, & Google Colaboratory to train a convolutional neural network which processed big data stored in JSON and audio formats to classify genre with 94.3% accuracy

Personal Projects

3D Lindenmayer-Systems In React and using THREE.js, created a three-dimensional L-System renderer and controller in browser [zayne.lu/l-system]

Assembly platformer In MIPS assembly, developed a game with Newtonian kinematics, pixel-perfect collisions, and optimized redraws

Modular parser Designed an advanced, flexible, modular arithmetic/logical bottom-up expression parser using classical algorithms

Sudoku solver Created a Sudoku solver using set theory, inductive logic, and dancing links

Accomplishments

2023 **Software Development Intern MVP**, Paycom Dallas, TX

2023 **Hackathon MVP**, Paycom Dallas, TX

2020-23 **Dean's List x6 (every undergraduate semester)**, UT Dallas Richardson, TX

2022 **Foundations of Organizational Behavioral Management Certificate**, APMG Amsterdam, NL

2020 **National Merit Scholar**, The College Board Austin, TX

2019 **National Young Leaders Summit**, Youth Leadership Consortium Chicago, IL

Skills

Languages Java, JavaScript, TypeScript, Python, C, C++, C#, SQL, HTML/CSS

Technologies React, Git, NextJS, UNIX, relational databases (MySQL), Jira, \LaTeX , Adobe Suite, Office suite, RESTful APIs

Concepts Algorithmic design & analysis, TCP/IP & OSI networking, OOP, computer architecture, Agile, test-driven development