

Nicholas Zolton

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TECHNICAL SKILLS

Programming Languages: Java, C#, C++, C, Python, JavaScript, TypeScript, HTML, CSS

Tools/Frameworks: Git, React, React Native, NodeJS, Spring, Docker, Kubernetes, FastAPI, Flask, Svelte

EXPERIENCE

Software Engineer

February 2025 - Present

Walmart Global Tech - Global Workforce Management Analytics Team

Bentonville, AR

- Eliminated \$1,000,000s in third-party contract costs by integrating Walmart Canada into our analytics platform.
- Designed and implemented data pipelines using Apache Airflow and BigQuery to build and deploy core analytics infrastructure, enabling business leadership to make data-driven decisions regarding labor demand and scheduling.
- Established robust monitoring, alerting, and data correction processes, focusing on key golden signals to ensure metric accuracy and significantly improve the reliability of business decision systems.
- Enhanced performance and delivered key features for a web application serving 60,000 daily active users by leveraging React, Node, and Redux, improving user satisfaction and system reliability.

Software Engineering Intern

June 2024 - August 2024

Walmart Global Tech - Global Workforce Management Demand Team

Bentonville, AR

- Developed and deployed critical infrastructure components using Java Spring for the Global Workforce Management Demand team, directly supporting the scheduling system for 2.3 million associates worldwide.
- Built a microservice using Java Spring to meet business stakeholder needs, and saved 10s of hours each month of labor which required critical accuracy.
- Reduced tech debt by 30% on all of our teams projects by refactoring and rewriting legacy code, which greatly increased the speed of further development and lowered overall maintenance costs significantly.

Software Development Intern

November 2022 – May 2023

Truist Financial Corporation

Richardson, TX

- Optimized C# and SQL stored procedures for W-2 services, reducing report generation time by up to 30 seconds.
- Maintained and upgraded core .NET infrastructure for user-facing services, ensuring high availability and low latency.

Software Engineering Intern

December 2021 – July 2022

Brains4Drones

Richardson, TX

- Pioneered the adoption of Docker containerization within embedded systems, significantly enhancing code portability.
- Actively contributed to critical open source computer vision projects, including the YOLOv5 detection model.

EDUCATION

University of Texas at Dallas

GPA: 4.0

Bachelor of Science in Computer Science

December 2024

PROJECTS

Sparrow Link | *FastAPI, Postgres, React, Typescript*

April 2023

- 1st place Engineering Capstone project at The University of Texas at Dallas.
- Developed a remote research platform for Spark Biomedical, accelerating clinical trials and data collection for their tAN device by enabling secure remote access to medical technology.

Redwood | *Python, React, JavaScript, FastAPI*

November 2023

- Finalist project at HackPrinceton 2023.
- Leveraged topological sort to generate a learning path which determines the shortest path of knowledge for users to learn a complex topic using Spacy.

ACHIEVEMENTS

Google Developer Student Club President

2023 - 2024

HackPrinceton 2023 Finalist

November 2023

HackRICE 13 Hackathon 2nd Place Environmental Hack

September 2023

Axxess 2023 Hackathon Overall 1st Place

April 2023

HackUTA 2023 Overall 2nd Place

October 2023

WEHack 2023 Hackathon 2nd Place Machine Learning

February 2023

1st Place Engineering Capstone Project at UTD

December 2024