

Nicholas Zolton

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TECHNICAL SKILLS

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

Tools/Frameworks: 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 facilitating the automatic scheduling of 2.3 million associates worldwide
- Spearheaded Java Spring microservice for critical task automation, saving 10s of monthly labor hours
- Reduced tech debt by 30% across team projects through legacy code refactoring, improving development velocity and lowering maintenance costs

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 50%
- 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
- Developed high-performance C++ applications leveraging CUDA for parallel processing on NVIDIA GPUs
- 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*

December 2024

- 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 neuro-stimulation device, and 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 throughout a textbook or research paper using SpaCy

ACHIEVEMENTS

1st Place Engineering Capstone Project at UTD

December 2024

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