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 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

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