# 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

**Chief Technology Officer**                                                              October 2025 - Present
*Happyverse*                                                                                      *San Francisco, CA*
- Oversaw and scaled a 15-engineer team, driving technical strategy, roadmap, and hiring to accelerate product delivery
- Spearheaded strategic partnerships and integrations with NVIDIA, Google, AWS, and Azure to validate technical assumptions and accelerate product adoption

***Head of Engineering***                                                        *September 2025 - October 2025*
- Implemented agentic solutions including knowledge retrieval, MCP integration, and interactive screen features, resulting in a significant increase in pilot user engagement and retention
- Reduced GPU inference costs by 75% without affecting broader quality benchmarks by optimizing model infrastructure and enabling distributed, parallelizable inferencing solutions

***Founding Software Engineer***                                                    *June 2025 - August 2025*
- Architected the real-time video-conferencing AI platform using WebRTC and Triton, with Python backend and gRPC services; rapidly grew product 1,000+ users with hundreds of AI conversations weekly
- Built core React/TypeScript frontend and owned backend/infra, gRPC integrations, and Kubernetes orchestration

**Software Engineer**                                                                   February 2025 - June 2025
*Walmart Global Tech - Global Workforce Management Analytics Team*                            *Bentonville, AR*
- Integrated Walmart Canada into analytics platform, eliminating multi-million-dollar third-party costs
- Built data pipelines with Airflow/BigQuery and improved frontend performance for a web app serving 60k daily users
- 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

**Software Engineering Intern**                                                         June 2024 - August 2024
*Walmart Global Tech - Global Workforce Management Demand Team*                               *Bentonville, AR*
- 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
*BenefitMall*                                                                                        *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 - August 2022
*Brains4Drones*                                                                                          *Dallas, TX*
- Pioneered use of OpenVINO, YoloV5, and TensorRT to increase embedded vision-inferencing AI performance by 400%+
- Managed two vital projects and developed 5,000+ lines of production code, removing reliance on shortage-ridden hardware

## 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

## ACHIEVEMENTS

**1st Place Gemini x Pipecat ($100,000 prize)**                                                  October 2025
**1st Place Engineering Capstone Project at UTD**                                                    Dec 2024
**Google Developer Student Club President**                                                        2023 – 2024
**HackPrinceton 2023 Finalist**                                                                       Nov 2023