Nicholas Wanner

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EDUCATION

TEXAS A&M UNIVERSITY
BS in Computer Engineering
Minor in Cyber Security
2021 | College Station, TX
GPA: 3.94 / 4.0 (Summa Cum Laude)

SKILLS

Languages:	C/C++, Python, C#, JavaScript, CSS
Databases:	SQL, NoSQL (e.g., PostgreSQL, MongoDB)
Web Dev:	ASP.NET, Vue.js, Express
DevOps:	Git, Docker, Kubernetes, Azure
Machine Learning & AI:	Tensorflow, Huggingface, ONNX Runtime
Other:	WSL, Databricks, Anaconda

EXPERIENCE

DELL | Software Engineer

CTO Software PoC Team | 2022 - Present | Austin, TX
- Led a config-driven AI/ML optimization project with ONNX Runtime and quantization, enhancing model speed and reducing storage by 50% on client devices, facilitating automated optimization for data scientists.
- Designed and implemented adaptable MLOps templates and platforms on Databricks, reducing setup complexity by 30% for data-centric roles along with drift detection to automate retraining at 10% drift thresholds, ensuring consistent accuracy.
- Secured five patents in wireless and HID tech, including WiFi meshes and gaming router enhancements.
- Enhanced gaming experiences by minimizing latency jitter with advanced networking solutions for critical applications.
- Developed embedded code for 'NYX' wireless PC controller, improving user experience and connectivity at CES 2022.
- Developed a PoC for better workstation setups, creating an algorithm for optimal peripheral configurations.

CTO Tech Strategy Team | 2021 - 2022 | Austin, TX
- Led Dell Bluetooth mouse pairing solution PoC, eliminating UI interaction and cutting pairing time by over 50%.
- Aided in creating ML-driven thermal management, improving compute efficiency by 12% and extending battery life by 15%.
- Implemented an automated data collection framework, tripling output (3x) and streamlining new test workload integration.
- Collaborated with data scientists on defining workloads and metrics, crucial to models adapting performance to user needs.

DELL | Software Engineer Intern

CTO Tech Strategy Team | 2022 | Austin, TX
- Led touchpad prototype design, significantly boosting user interaction, efficiency, and halving time to market.
- Pioneered touchpad technology leading to a patent, highlighting its innovation and intellectual value.
- Conducted research on pen-on-touchpad technology, evaluating pen types and establishing KPIs.

THOUGHT TRACE | Data Science Intern

Core Insights Team | 2018 | Houston, TX
- Developed a web app for real-time machine learning data labeling and QA, boosting process efficiency by over 30%.
- Created an ontology for dynamic UI validation, automating NLP label integration and cutting manual updates by 75%

TEXAS A&M | Peer Teacher

Dept. of Electrical Engineering | 2019 | College Station, TX
- Instructed 30 students in an accelerated 8-week *Intro to Computer Systems* course, condensing semester content by 50%.
- Adapted weekly lesson plans for diverse learning styles, boosting student engagement and participation.
- Conducted biweekly and on-demand one-on-one office hours, enhancing individual performance.

PROJECTS

MULTI-INSTRUMENTAL TACTILE SYNTHESIZER (MITS) | Arduino, Swift, Reaper (DAW)
Gloves that convert hand gestures into musical instrument sounds, utilizing Arduino and DAW software, demonstrating gesture recognition and sound synthesis.

RECEIPT READER | Node JS, HTML, CSS, Google APIs
Web app enabling users to authenticate, upload receipts, and extract data with OCR, with seamless Google Sheets integration for expense tracking and analysis.