

Nicholas Wanner

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EDUCATION

TEXAS A&M UNIVERSITY

BS IN COMPUTER ENGINEERING

MINOR IN CYBER SECURITY

May 2021 | College Station, TX

Summa Cum Laude

hello GPA: 3.94 / 4.0

SKILLS

LANGUAGES

Python • C/C++ • C#

JavaScript • CSS

TOOLS

Git/Github/Bitbucket/Gitlab

ONNX • Numpy • Pandas

PyTorch • Tensorflow

EXPERIENCE

DELL | SOFTWARE ENGINEER, CTO SOFTWARE PoC TEAM

Jan 2023 - Present | Austin, TX

- Spearheaded an AI/ML model optimization initiative using ONNX Runtime and advanced quantization tools, achieving a Y% improvement in model performance and efficiency for targeted hardware applications.
- Assisted in building an MLOps pipeline in Databricks, migrating model data and introducing data/model drift detection to monitor performance.
- Secured five patents in wireless tech and HID innovations, including WiFi meshes, gaming router optimizations, and touchpad controls.
- Investigated and implemented advanced networking solutions to minimize gaming latency jitter, elevating user experience for performance-critical applications.
- Supported developing embedded code for the 'NYX' wireless PC controller, showcased at CES 2022, enhancing user experience and connectivity.
- Contributed to a PoC project aimed at refining workstation setups, crafting an algorithm that recommends peripheral configurations based on user preferences and system capabilities.

DELL | SOFTWARE ENGINEER, CTO TECH STRATEGY TEAM

June 2021 - Present | Austin, TX

- Optimized system resource sharing with supervised ML techniques
- Designed software and hardware architectures for new product incubations
- Collaborated with stakeholders and vendors to mature business infrastructure

DELL | SOFTWARE ENGINEER INTERN

June 2020 - Aug 2020 | Austin, TX

- Developed incubations within the Office of the CTO
- Led incubation hardware and software architecture design
- Developed a POC for new touchpad technology using C# and .NET framework
- Initiated patent documentation for touchpad technology

TEXAS A&M | PEER TEACHER

June 2019 - Aug 2019 | College Station, TX

- Taught *Intro to Computer Systems* to 35 students
- Developed and adapted lesson plans for individual and group work

THOUGHT TRACE | DATA SCIENCE INTERN

Jan 2018 - Aug 2018 | Houston, TX

- Developed web applications for machine learning data labeling and QA feedback
- Provided fully populated ontology for front-end UI validation
- Engaged in SCRUM and team problem-solving with data scientists

PROJECTS

MULTI-INSTRUMENTAL TACTILE SYNTHESIZER (MITS) | TOOLS: ARDUINO, SWIFT, REAPER (DAW)

Built gloves translating hand gestures into digital instruments using Arduino and DAW

RECEIPT READER | TOOLS: NODE JS, HTML, CSS, GOOGLE APIS

Developed a web application for uploading receipts and extracting information using OCR

MEASUREMENT GLOVES | TOOLS: ARDUINO, FLUTTER

Built gloves to measure drone pilots' grip, transmitting data to a mobile device in real-time