

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

GPA: 3.94 / 4.0

COURSEWORK

UNDERGRADUATE

Data Structures & Algorithms

Computer Architecture & Design

Operating Systems

Principles of Data Science

Artificial Intelligence

SKILLS

LANGUAGES

C/C++ • Python • C#

JavaScript • CSS • Node.js

TOOLS

Git/Github • MySQL • PostgreSQL

Seaborn • Pandas • Matplotlib • Numpy

EXPERIENCE

DELL | SOFTWARE ENGINEER, CTO SOFTWARE PoC TEAM

June 2021 - Present | Austin, TX

- Filed five patents protecting Dell in gaming and wireless technology areas
- Explored novel techniques in wireless data transfer to exponentially reduce gaming latency jitter
- Contributed to Dell concept project "NYX," revealed at CES 2022, writing embedded code for a new wireless PC controller
- Spearheaded the development of a proof of concept, demonstrating its capability to provide intelligent recommendations for user workstation setups

DELL | SOFTWARE ENGINEER, CTO TECH STRATEGY TEAM

June 2021 - Present | Austin, TX

- Optimizing system resource sharing by investigating and implementing novel applications of supervised ML techniques
- Designing software and hardware architectures for new incubations as a product owner on the Tech Strategy team
- Strengthening business infrastructure through maturing current and future projects with key stakeholders and vendors

DELL | SOFTWARE ENGINEER, INTERN

June 2020 - Aug 2020 | Austin, TX

- Researched and developed cutting edge incubations within the Office of the CTO
- Drove incubation hardware and software architecture design, aligning across multiple Dell teams and third-party vendors
- Designed and developed a POC for new touchpad technology utilizing C# with a .NET framework
- Initiated incubation patent documentation for touchpad technology, securing Dell intellectual property

TEXAS A&M | PEER TEACHER

June 2019 - Aug 2019 | College Station, TX

- Instructed *Intro to Computer Systems* to 35 college students; holding class lessons, reviews, and tutoring sessions
- Created and adapted lesson plans according to students' academic needs, including both individual and group work

THOUGHT TRACE | DATA SCIENCE INTERN

Jan 2018 - Aug 2018 | Houston, TX

- Developed web applications to centralize and optimize the data labeling system used for machine learning algorithms and validate model enhancements to provide QA feedback
- Validated UI by providing a fully populated ontology for the front-end developers
- Participated in team problem solving, SCRUM, and discussions with other data scientists

PROJECTS

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

Constructed a pair of gloves which captured hand gestures using Arduino micro-controllers and translated them into instruments on a host computer running a digital audio workstation (DAW)

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

Developed a web application giving users the capability to upload receipt pictures, extract purchase information using Google Vision OCR, and store it on web hosted spreadsheets

MEASUREMENT GLOVES | TOOLS: ARDUINO, FLUTTER

Built a pair of gloves which measured a drone pilot's grip on their controller, storing the information locally alongside transferring it in real-time to a mobile device in order to monitor the flight session