

# Nathan R. Perez

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## EDUCATION

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<b>University of Texas at Dallas</b> <i>Bachelor of Science of Computer Science</i>   3.7 GPA	Jan 2023 - Dec 2025 Richardson, TX
<b>Midland College</b> <i>Associate of Science in General Studies</i>   4.0 GPA	Jan 2021 - Dec 2022 Midland, TX

## WORK EXPERIENCE

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<b>Research Assistant</b> <i>University of Texas at Dallas: Lab4ISC</i> <ul style="list-style-type: none"><li>Contributed to paper regarding DNA digital storage systems by comparing novel ECC to existing literature</li></ul>	Sep 2024 - Present Richardson, TX
<b>Web Development Intern</b> <i>Ayoka Systems</i> <ul style="list-style-type: none"><li>Developed and debugged enterprise application features using Vue.js, Typescript, and Entity Framework Core</li><li>Key implementations included inventory management and tracking, bar-code scanning, and PDF generation</li><li>Employed Git feature branch workflow to work effectively within a team</li><li>Communicated in daily stand-ups regarding progress</li></ul>	Jan 2024 - May 2024 Arlington, TX
<b>Software Development Intern</b> <i>Tyler Technologies</i> <ul style="list-style-type: none"><li>Designed and implemented full-stack overhaul to web app that calculated and presented resource projections</li><li>Developed asynchronous REST API with promised-based requests using Node.js, Axios, &amp; SQL</li><li>Leveraged Agile Development principles with Jira, while maintaining a multi-branch Git workflow with team</li><li>Revamped front-end dialogues with new features and a modern user interface with Material UI</li><li>Wrote and published Confluence documentation over new database structure &amp; ReactJS components</li><li>Responsible for aiding in live deployment to production</li></ul>	May 2023 - Aug 2023 Plano, TX
<b>Mathematics Tutor</b> <i>Midland College</i> <ul style="list-style-type: none"><li>Taught mathematical skills for classes including Remedial Math, Quantitative Reasoning, Math for Teachers I &amp; II, Statistics, College Algebra, Trigonometry, Pre-Calculus, Calculus I and Calculus II</li></ul>	Feb 2022 - Oct 2022 Midland, TX
<b>Receptionist</b> <i>Bush Tennis Center</i> <ul style="list-style-type: none"><li>Key-holder, trained 5 new hires in client interactions and 35+ volunteers in general duties</li></ul>	Sep 2019 - Jan 2023 Midland, TX

## PROJECTS

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<b>Game Boy Emulator</b>   <i>Rust, SDL2</i> <ul style="list-style-type: none"><li>Sole programmer on Game Boy emulator, includes emulation of CPU, PPU, RAM, IO, and Bus</li><li>Verified CPU is specification accurate through extensive testing of opcodes, interrupts and timing</li></ul>	Aug 2024
<b>Moist Meter</b>   <i>React JS &amp; TS, Python, Google Cloud, Raspberry PI, HiveMQ, MongoDB</i> <ul style="list-style-type: none"><li>Front-end developer on IoT web-app, 1st place winner in hackUTA's Main Track and State Farm's track</li></ul>	Oct 2023
<b>HateDeception: Adversarial NLP</b>   <i>Python, PyTorch, NumPy, Pandas, Matplotlib, NLTK</i> <ul style="list-style-type: none"><li>Responsible for the cleaning, lexical analysis, and visualization of 32,000 records before &amp; after EDA &amp; GloVe</li><li>Worked in red team to decrease large language model classification by 20% while maintaining meaning of tweets</li><li>Presented with 4 peers in research symposium to audience of professors, students, and researchers</li></ul>	Jan 2023
<b>Personal Website</b>   <i>Bootstrap 5, Html, CSS</i> <ul style="list-style-type: none"><li>Personal website hosted at <a href="https://nathanperez.dev">https://nathanperez.dev</a>, showcases 10+ projects not related to academic work</li></ul>	Jun 2023

## TECHNICAL SKILLS

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**Languages:** C, C++, C#, Rust, Java, JavaScript, Typescript, Python, SQL (Microsoft), HTML, CSS, SCSS, Dart  
**Frameworks:** React, Vue.js, .NET, Flutter, Bootstrap 5, ExpressJS, Entity Framework Core  
**Developer Tools:** Git, MongoDB, Jira, Confluence, SSMS, IIS, Unix, Figma