

# Nathan R. Perez

NathanPerez.business@gmail.com | linkedin.com/in/nathanperezr/ | github.com/NathanPerezR

## EDUCATION

### University of Texas at Dallas

*Bachelor of Science of Computer Science* | 3.7 GPA

Jan 2023 - May 2026

*Richardson, TX*

### Midland College

*Associate of Science in General Studies* | 4.0 GPA

Jan 2021 - Dec 2022

*Midland, TX*

## WORK EXPERIENCE

### Web Development Intern

*Ayoka Systems*

Jan 2024 - May 2024

*Arlington, TX*

- Developed and debugged enterprise application features using Vue.js, Typescript, and Entity Framework Core
- Key implementations included inventory management and tracking, bar-code scanning, and PDF generation
- Employed Git feature branch workflow to work effectively within a team

### Software Development Intern

*Tyler Technologies*

May 2023 - Aug 2023

*Plano, TX*

- Designed and implemented full-stack overhaul to web app that calculated and presented resource projections
- Developed asynchronous REST API with promised-based requests using Node.js, Axios, & SQL
- Communicated with 2 senior developers and 1 manager in daily stand-ups regarding progress
- Improved data integrity with normalization and relational principles in Microsoft SQL Server
- Collaborated with primary stakeholders on a weekly basis to design and prototype the application
- Leveraged Agile Development principles with Jira, while maintaining a multi-branch Git workflow with team
- Revamped 3 front-end dialogues with new features and a modern user interface with Material UI
- Wrote and published Confluence documentation over new database structure & ReactJS components
- Responsible for aiding in live deployment to production

### Receptionist

*Bush Tennis Center*

Sep 2019 - Jan 2023

*Midland, TX*

- Key-holder, trained 5 new hires in client interactions and 35+ volunteers in general duties

## PROJECTS

### Game Boy Emulator | Rust, SDL2

Aug 2024

- Sole programmer on Game Boy emulator, includes emulation of CPU, PPU, RAM, IO, and Bus
- Verified CPU is specification accurate through extensive testing of opcodes, interrupts and timing

### Account Aggregator | ReactJS, JavaScript, CSS, SCSS, ReChart

Aug 2023

- Co-developer of financial aggregator which visualized transactions with Plaid API, allowing for overview of accounts such as Bank of America, Vanguard, American Express and 12,000+ participating institutions

### Moist Meter | React JS & TS, Python, Google Cloud, Raspberry PI, HiveMQ, MongoDB

Oct 2023

- Front-end developer on IoT web-app, 1st place winner in hackUTA's Main Track and State Farm's track

### HateDeception: Adversarial NLP | Python, PyTorch, NumPy, Pandas, Matplotlib, NLTK

Jan 2023

- Responsible for the cleaning, lexical analysis, and visualization of 32,000 records before & after EDA & GloVe
- Worked in red team to decrease large language model classification by 20% while maintaining meaning of tweets
- Presented with 4 peers in research symposium to audience of professors, students, and researchers

### Personal Website | Bootstrap 5, Html, CSS

Jun 2023

- Personal website hosted at <https://nathanperez.dev>, showcases 10+ projects not related to academic work

## TECHNICAL SKILLS

**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