

# Nathan R. Perez

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## EDUCATION

### University of Texas at Dallas

Bachelor of Science of Computer Science | 3.8 GPA

Jan 2023 - May 2025

Richardson, TX

### Midland College

Associate of General Studies | 4.0 GPA

Jan 2021 - Dec 2022

Midland, TX

## EXPERIENCE

### Software Development Intern

Tyler Technologies

May 2023 - Aug 2023

Plano, TX

- Designed and implemented full-stack overhaul to **React JS / SQL** dashboard which calculated and stored resource projections for 16 quarters.
- 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

### Mathematics Tutor

Midland College

Feb 2022 - Oct 2022

Midland, TX

- Taught math skills in courses including Statistics, Algebra, Trigonometry, Calculus I & II and others
- Instructed group review sessions of 3+ participants

### Receptionist / Admin support

Bush Tennis Center

Sep 2019 - Jan 2023

Midland, TX

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

## PROJECTS

### 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 team of 3 to decrease large language model classification by 20% while maintaining meaning of tweets
- presented with 4 other students in research symposium to audience of professors, students, and researchers

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

Oct 2023

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

### 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

### 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++, Java, JavaScript, Typescript, Python, SQL (Microsoft), HTML, CSS, SCSS, Dart

**Frameworks:** React, Flutter, Bootstrap 5, ExpressJS

**Developer Tools:** Git, Jira, Confluence, SSMS, IIS, MongoDB, Linux / Unix, Figma