

Nathan R. Perez

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EDUCATION

The University of Texas at Dallas, *BS of Computer Science* | 3.88 GPA
Premier High School

Expected Graduation May 2025
Midland, Tx | Class of 2020

WORK EXPERIENCE

Tyler Technologies, *Software Developer Intern*

May 2023 – August 2023

- Designed and implemented full stack overhaul to existing **React JS** web app vital to management of department
- Collaborated with software users to design, prototype, and deploy an updated version, responsible for aiding in deployment to production
- Architected new database functionality which emphasized principles of third normal form in **Microsoft SQL Server**, while maintaining existing **SQL** tables, stored procedures, functions, and relational database structure while incorporating modular features with an increased emphasis on user customizability
- Improved front end with customized modern design utilizing **Material UI**
- Leveraged **Agile Development** principles in **Jira**, while maintaining a multi branch **Git** workflow with a team of 5
- Wrote promised-based HTTP requests and routes for **Node.js** utilizing **Axios**
- Solo end of summer presentation to department

Midland College, *Mathematics Tutor*

January 2022 – October 2022

- Taught and supported the development of mathematical skills in; Remedial Math, Quantitative Reasoning, Math for Teachers I & II, Statistics, College Algebra, Trigonometry, Pre-Calculus, Calculus I and Calculus II
- Conveyed intricate concepts in colloquial terms
- Instructed group review sessions of 3+ participants for exams

Bush Tennis Center, *Receptionist*

September 2019 – January 2023

- Trained 5 members of staff
- Marketed and sold memberships, lessons, clinics, rackets, tennis string, add-ons, and camps to customers
- Training of 35+ volunteers
- Managing of 17+ volunteers during events
- Communicated information regarding our outreach program and nonprofit activities to patrons
- Keyholder, responsible for running pro shop alone during peak hours, including simultaneous checking in and payment for clinics, leagues, tournaments, lessons, and court rentals, on top of normal pro shop responsibilities

PERSONAL PROJECTS & CLUB INVOLVEMENT

ACM Research, *Research Participant*

January 2023 – May 2023

- Participated in a semester-long Natural Language Processing (NLP) project, *HateDeception: Using Adversarial Learning to Deceive Hate Speech Detection Models for Twitter*
- Performed data cleaning, Lexical data analysis, and visualization on big data using **Python**, **NumPy**, **Pandas**, Google Collab, Deepnote, and **NLTK**
- Implemented Easy Data Augmentation (EDA) and Word Embedding (vectorized utilizing **GloVe**), on Twitter data to deceive existing Artificial Intelligence models. Successfully reduced model detection rate by 20% while maintaining semantic meaning
- Designed and gave a presentation to an audience of industry professionals, researchers, and professors

Personal Website, *nathanperezr.github.io*

- Website written in **CSS**, **HTML** using **Bootstrap 5**, and designed in **Figma**
- Personal portfolio website designed to showcase skills and personal projects that are not related to academic work

SKILLS & INTERESTS

Languages: C, C++, Java, Javascript, Python, , SQL, HTML, CSS, Unix, Git, Artificial Intelligence,

Frameworks: React

Tools: Git, Visual Studio, SSMS, IIS,