Nathan R. Perez

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EDUCATION

University of Texas at Dallas　　　　　　　　　　　　　　　　Jan 2023 - May 2025
Bachelor of Science of Computer Science | **3.8 GPA**　　　　　　　　　　*Midland, TX*

Midland College　　　　　　　　　　　　　　　　　　　　Jan 2021 - Dec 2022
Associate of General Studies | **4.0 GPA**　　　　　　　　　　　　　*Midland, TX*

EXPERIENCE

Software Development Intern　　　　　　　　　　　　　　　　May 2023 - Aug 2023
Tyler Technologies　　　　　　　　　　　　　　　　　　　　　　　*Plano, TX*
- Designed and implemented full-stack overhaul to **React JS / SQL** web-app calculated and stored resource projections for 16 quarters
- Validated new calculations through tests against 4,000 records
- White-Boarded database changes with co-workers to plan addition of customized inputs to projection model
- Collaborated with primary stakeholders on a weekly basis to design and prototype the application.
- 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**
- Revamped 3 front-end dialogues with new features and a modern user interface design with Material UI
- Leveraged **Agile Development** principles with Jira, while maintaining a multi-branch **Git** workflow with team
- Developed asynchronous **REST API** with promised-based requests using **Node.js** and **Axios**
- Wrote and published Confluence documentation over new database structure & React JS components
- Responsible for aiding in deployment to production

Mathematics Tutor　　　　　　　　　　　　　　　　　　　Jan 2022 - Oct 2022
Midland College　　　　　　　　　　　　　　　　　　　　　　*Midland, TX*
- Taught math skills in courses including Statistics, Algebra, Trigonometry, Calculus I & II and others
- Conveyed intricate concepts in colloquial terms, which helped students gain an intuition for math
- Instructed group review sessions of 3+ participants

Receptionist / Admin support　　　　　　　　　　　　　　Sep 2019 - Jan 2023
Bush Tennis Center　　　　　　　　　　　　　　　　　　　　　*Midland TX*
- Trained 5 new hires in client interactions and 35+ volunteer's in general duties, and handled mass communications
- Key-holder, worked in a fast-paced environment alone managing 26 courts for 4+ years

PROJECTS

HateDeception | *Python, NumPy, Pandas, NLTK*
- Responsible for the cleaning, lexical analysis, and visualization of 32,000 records
- Successfully worked within a team of 3 to decrease large language model (LLM) detection rate by 20% while preserving semantic meaning of tweets
- Implemented EDA and GloVe algorithms on 32,000 Twitter records, using Matplotlib to interpret results
- Delivered presentation with 5 other students to audience of professors, students, and researchers

Web Scrappers | *Python, Beautiful Soup, Requests*
- Misc. web scrappers, scrappers for NFT's / block chain data, Instagram data & Twitter

Account Aggregator | *ReactJS, JavaScript, CSS, SCSS, ReChart*
- Co-developer of financial aggregator which visualized transactions with data collected from Stripe 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*
- Personal website hosted at https://nathanperez.dev , to showcase projects not related to academic work

TECHNICAL SKILLS

Languages: C, C++, Java, JavaScript, Typescript, Python, SQL (Microsoft), HTML, CSS, SCSS, Dart
Frameworks: ReactJS, Node.JS, Flutter, Bootstrap 5
Developer Tools: Git, Jira, Confluence, SSMS, IIS, Linux / Unix