Tresten Pool

Software Engineer

- trestenpool@gmail.com
- (361) 446-2936
- Corpus Christi, TX
- LinkedIn Github
- Portfolio-site

Programming Languages

Java	SpringBoot
Javascript	ExpressJS
PHP	Laravel
Python	Django, Selenium
C,C++	OpenMP, MPI
HTML	
CSS	
Powershell	DBATools
SQL, NoSQL	

Certifications

AWS Certified Cloud Practitioner

Microsoft Certified Azure Fundamentals

Course Work

Advanced Software Engineering
Enterprise Software Engineering
Advanced Systems Programming
Parallel Programming

Skills Development

Udemy - Web Developer Bootcamp 2022
Udemy - Python Django
Udemy - C Programming

EDUCATION

University of Texas at San Antonio (GPA 3.26)

B.S Computer Science (Concentration Software Engineering)

- September 2018 - May 2022
- San Antonio, TX

WORK EXPERIENCE

Sogeti — Application and Cloud Technologies Consultant

August 2022 - September 2023

- Successfully served as a **Junior Java Developer** for a period of 6 months, demonstrating proficiency in **Java Spring** to architect and develop REST APIs that facilitated communication with a MySQL database.
  - Achieved a substantial **35% reduction** in query response times by optimising SQL queries and refining database indexing strategies,
  - Implemented robust data validation and error handling mechanisms within REST APIs, leading to a **20% decrease in data-related issue**
- Spearheaded a contract project driving a **46% operational efficiency** boost via dynamic PowerShell scripts, automating SQL patch execution, orchestrating REST API interactions for data manipulation, and optimising database tasks through DBATools PowerShell module across diverse customer database
- Orchestrated a **multi-cloud serverless architecture** enabling remote oil drilling sites without internet connectivity to sync with a server for monthly data processing in a software development project for an oil and gas company.

Solugenix — IT Help Desk Technician

February 2020 - February 2022

- During my tenure as an IT Help Desk Technician, I demonstrated exceptional problem-solving skills and technical expertise while providing crucial support to customers. I also enhanced **SQL query performance by 22%** through strategic query optimization techniques, including the replacement of inefficient DISTINCT clauses with EXISTS and IN constructs, streamlining JOINs, and restructuring subqueries.

Side Projects

YelpCamp

- Fully functional web app hosted on aws ec2 instance.
- ExpressJS for the backend, Bootstrap5 for the frontend and MongoDB.

Inventory Management System API

- In Advanced software engineering class we were tasked with taking a 5 million record csv file and wrote a php (laravel) REST crud API.