

# EZER PATLAN

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## SUMMARY

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Ability to leverage scientific computational knowledge from the geo-seismic sphere to develop as a Machine Learning and Artificial Intelligence Engineer with precision and efficiency in Big Data analytic programming and Software Engineering. I am currently working toward my master's degree in computer science with a concentration in Data Science, and I have 4+ years of experience in SQL, Spark, and JavaScript, as well as 14+ years in Python and Linux. I have a proven ability to deliver responsive machine learning theory, optimization methods, deep learning, and large language models.

## EDUCATION

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### San Diego State University (SDSU)

May 2026

*Master of Science (MS) in Computer Science*

*San Diego, CA*

- **Relevant Coursework:** Data Mining, Algorithm Analysis Design, Algorithms, Machine Learning, Big Data Tools & Methods, Database Theory Implement, Principle & Techniques Data Science, Intro to Web App, Android/iPhone/iPad Mobile App, Human-Computer Interfaces, Data Structures, Object Oriented Programming, Software Engineering, Computer Architecture

### The University of Texas at El Paso (UTEP)

July 2016

*Doctor of Philosophy (PhD) in Geological Science*

*El Paso, TX*

- **Relevant Coursework:** Selected Topics CS, Mathematical Physics, Intro to Computational Science

### The University of Texas at El Paso (UTEP)

May 2011

*Master of Science (MS) in Geophysics*

*El Paso, TX*

- **Relevant Coursework:** Digital Image Processing, Seismology, Geoscience Computer Applications, Advanced Seismology, Geophysical Inverse Theory, Digital Signal Processing, Numerical Solution Partial Differential Equation, Numerical Optimization

### The University of Texas at El Paso (UTEP)

May 2008

*Bachelor of Science (BS) in Geophysics*

*El Paso, TX*

- **Relevant Coursework:** Discrete Math, Electromagnetics I, Thermal and Fluid Physics, Probability, Applied Analysis I, Analytical Mechanics I, Matrix Algebra, Modern Physics

## EXPERIENCE

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### SDSU

May 2023 – Present

*AI4Business Research Student*

*San Diego, CA*

- Implemented explainable anomaly detection using a big medical database for tabular and **time-series signals** e.g., heartbeat, and COVID-19.
- Utilized large database queries, construction, transformer functions, and automated ETL processes utilizing **Python, SQL,** and **MongoDB**.
- Working with eBay 2024's University Machine Learning Competition: Build a large language model that can identify which vehicles are compatible with specific parts and accessories.

### HP Inc. / KForce

Sept. 2021 – July 2024

*Software QA Engineer*

*San Diego, CA*

- Designed scalable platform solutions, translating business and product concepts into technical solutions.
- Experienced using **REST APIs** such as the **Postman** application that helps identify any defect on the connectivity side (Radio Frequency wireless) of the Android App called HP Smart App for printer devices.
- Experienced with Agile software development processes such as Jira.
- Integrated **GraphQL** into existing **REST API** infrastructure, enabling a **20%** reduction in API-related issues.

### US Geological Survey

July 2021 – Oct. 2022

*Geophysicist post-doc research fellow*

*Menlo Park, CA*

- Contributed scientific computing for large data sets including data, mining, data analysis, data visualization, and statistical methods.
- Applied signal processes (filtering, analysis, and optimization) for scientific analysis.
- Utilized **PyQt6** to create an intuitive graphical interface (GUI), increasing user time on-site by **10%**.

## PROJECTS

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### **WAIWT/Text3D** | *MongoDB, Python, NodeJS, HTML CSS, AWS Cloud Platform (GPU)* | **Tech Cadets 2024**

- Leveraged normal-depth **Diffusion Models** to use CUDA AWS GPU to handle processing and highlight essential details for improved 3-dimensional richness.
- Implemented a back end for a fashion forecast website by authenticating accounts for Sign Up/Sing.

### **GuardX** | *iOS, Swift, Firebase Google* | **SDSU Certification 2019**

- Automated monthly crime status updates for any GPS location or address via data analysis and data mining of information from San Diego County police reports.
- Reduced time to upload reports to **10 seconds**.

### **Website for National Museum** | *HTML, CSS, PHP, JavaScript, jQuery* | **SDSU Certification 2019**

- Implemented a five-page website with a 24-hour weather report, pop-up windows, and an animated calendar.
- Registered new subscribers and accessed weather feed through the integration of **PHP, JavaScript, and jQuery**.

## TECHNICAL CERTIFICATIONS

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**Oracle Cloud Infrastructure 2024 Generative AI Professional:** Certified July 2024, Skills: LLM and Chatbot.

**AT&T 2024 Technology Academy:** Certified July 2024, Skills: Cloud Computing, Agile, REST, and Machine Learning.

**Advanced Web and Mobile Application Certification:** Certified May 2019. Skills: Swift, Java, HTML/CSS, and PHP.

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, Java, TypeScript, Swift, Java, C++, SQL, HTML/CSS, R, Bash, PHP, Matlab, jQuery

**Frameworks:** React, Node.js, Angular, Flask, Linux/Unix

**Tools:** Oracle Cloud, AWS (EC2, IAM, Lambda), Postgres, Docker, MongoDB, GraphQL, Git, Jupyter, Postman, Snowflake

**Python Libraries:** NumPy, Matplotlib, OpenCV, Pandas, Scikit-learn, PyQt6, Tensorflow, Pyspark, Pytorch, Yolov8

## WORKSHOPS

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**Cybersecurity Course, CODEPATH\*ORG,** September 2024

**Mastering REST APIs: The Universal Integration Tool in AI and Beyond,** Oracle, July 2024

**Conversational AI: Harnessing Generative AI with Oracle Digital Assistant,** Oracle, July 2024

**Zero to Snowflake in 90 minutes,** Snowflake, July 2024

**Visual Analytics Powered by Snowflake and Tableau,** Snowflake, July 2024

**Advanced Web and Mobile Application Certification,** Certified May 2019. Skills: Swift, Java, HTML/CSS, and PHP.

## CLUB AND ACTIVITIES

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### **Volunteer** | *Escondido, CA* | **Tu Vien Phap Vuong (Buddhist Temple)**

**May 2022 - Present**

- Assisted a group of parents to re-model the outside of the temple such as carpentry, and iron welding.
- Participated in the decoration for the lunar year, Buddha's birthday, and the summer kids' program.
- Facilitated the needs of the children in the temple by setting up the tables, chairs, and utensils for their lunchtime every Saturday.

### **Member** | *San Diego, CA* | **Association of Latino Professionals For America (ALPFA)**

**July 2024 - Present**

- Registered as a San Diego chapter ALPFA.
- Participated in resume workshops, social activities, and the ALPFA Convention.

## LANGUAGES

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**Spanish:** *Native (Written and Spoken)*