# OCTAVIO AUGUSTO ALEMAN ESPARZA

(+52 1) 5554311082 | oa.alemanesparza@gmail.com
www.linkedin.com/in/augusto-aleman
www.octavio-aleman.tech

**Software Development** and **Computer Technologies Specialist** with a solid experience in the creation of efficient and scalable technological solutions. Passionate about developing innovative projects that drive digital transformation in various industries.

- Portfolio -

## EDUCATION

*Instituto Tecnológico y de Estudios Superiores de Monterrey*, Mexico City                 August 2020 - June 2024
**B.S. in Computer Science and Technology**
   GPA of 3.72

   Relevant Coursework: Development of software systems, analysis and design of advanced algorithms, integration of computer security in networks and software systems, implementation of computational methods, among others.

*Instituto Tecnológico y de Estudios Superiores de Monterrey*, Mexico City                                         2023
**Minor Degree in Data Analytics and Artificial Intelligence**
   Gained a deep understanding of Artificial Intelligence, Machine Learning, and Deep Learning. Practical experience in turning data into powerful ML models. Utilized advanced Data Analytics libraries in Python to uncover insights and create innovative solutions.

*Huawei Global Training Center*, Hangzhou, China                                                            May 2024
**Advanced Deep Learning Specialization**
   Selected to participate in the Infotec IA 1000 Learning Journey, an intensive Deep Learning training program after achieving one of the highest national scores on the Huawei HCIA-AI certification exam.
      Relevant Coursework: Cutting-Edge AI Applications, Image Processing Theory and Applications, Natural Language Processing and Applications, Algorithm Basics of Scale Deep Learning and Digital Economy for Industry Innovation.

## SKILLS

**Technical Skills:** Proficient in Python, C++, HTML, CSS; Familiar with JavaScript, Swift and SQL; Skilled in developing Machine Learning and Deep Learning models using Scikit-Learn, PyTorch and MindSpore; Experienced in Data Analysis and Visualization using Pandas, NumPy, Matplotlib, Seaborn, Plotly, Dash; Full-stack web application development using React, Django, Flask, FastAPI.
**Methodologies**: Agile, Scrum, Kanban, Lean Software Development, Spiral, Prototyping, Design Thinking.
**Tools:** Git, Postman, VS Code, XCode, Postman, Azure DevOps, JIRA, Microsoft Teams, Figma, Microsoft Office.
**Soft Skills:** Analytical capability, goal oriented, problem solving, effective communication, teamwork.
**Languages:** Conversational English (C1), Fluent German (B2) and Native Spanish.

## PROJECTS

**SENTINEL AI**                                                                                      April 2024
- Development of an **ensemble method** combining multiple **Machine Learning** and **Deep Learnin**g models for Beiersdorf to prevent phishing attempts.
- Training of models using real data from the company databases, ensuring high accuracy and relevance.
- Utilized advanced Python libraries such **as Pandas, NumPy, Dash, Scikit-Learn** and **PyTorch** for **data preprocessing, model trainin**g, as well as the development of a **graphical interface** with relevant KPIs.
- Deployment of the solution on Azure using **FastAPI**, leveraging **cloud infrastructure** for scalability and reliability.
- Implementation of the full pipeline from data collection and preprocessing to model training and deployment.

**DRIVE AI**                                                                                          June 2023
- Planning and development of a website for NDS Cognitive Labs following the ISO/IEC/IEEE 29148 standard.
- Business model, monetization and value proposition design.
- Development of the application interface using **React** with Styled Components and Vercel. Framework was developed in **Java SpringBoot** with **Docker**, **SQL** database. Implementation of **CI/CD** practices and deployment in AWS S3.
- System development using Agile methodology, tracking through **Azure DevOps**.

## EXPERIENCE

*CIBRUC* , Mexico City                                                                    August 2022 - June 2023
**Student Coordinator Mexico City**
- Managed and optimized student participation in organizational activities through a data-driven and metrics-based approach.
- Implemented and monitored key performance indicators (KPIs) to measure student collaboration and participation, using data analytics tools to assess their impact and identify opportunities for continuous improvement.

## CERTIFICATIONS
- Infotec IA 1000 Learning Journey          (Huawei)
- Huawei HCIA – AI                          (Huawei)
- Leadership Diploma        (Tecnológico de Monterrey)
- Academic IELTS - Band 8                   (IELTS)
- Sprachdiplom der Kultusministerkonferenz      (KMK)

## RECOGNITIONS
- **Outstanding Performance** in the CENEVAL General Exam for Bachelor's Degree (EGEL) in Software Engineering.