Alejandro Gutiérrez Grimaldo

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EDUCATION

Engineering School - Autonomous University of Mexico (FI- UNAM) Mexico City, Mexico
Bachelor of Computer Engineering *2022 - Graduating in 2027*

National High School "Jose Vasconcelos" Mexico City, Mexico
Specialized Technical Study in Computing *2020 - 2022*

EXPERIENCE

Engineering School Competitive Programming Club | *C++* February 2023 – Present
CPCFI - UNAM *Club - ICPC*
- Member of the third generation of the competitive programming club
- Implemented algorithms with C++ to solve problems in the application, placed in the top 20% of all participants in the ICPC Mexico 2023 contest
- Engineering team member for the development of a statistics and tools web application
- Link to CPCFI recognition
- Link to ICPC recognition

International Space Apps Challenge | *Dart/Flutter, API Palm2/LLM* October 2023
NASA - AEF (Mexican Space Administration) *Hackathon*
- Participated in a three-day in-person hackathon to solve a challenge proposed by NASA
- We created an application for the "What's up with the water?" challenge, which seeks to raise awareness of the importance of water bodies (including their flora and fauna) for the environment
- I was responsible for developing the chatbot, which is powered by Google's LLM Palm2, with the aim of making the user feel accompanied at all times for any questions
- I also designed and implemented the homescreen, which includes a section of problems and solutions as predefined prompts for the LLM

Subete a la nube | *Google Cloud* September 2023 – October 2023
Google - INROADS Mexico *Google Skills Badges*
- Member of the first generation of Google program to encourage Google Cloud Services
- Gained knowledge about cloud computing fundamentals, infrestructure network, security, data, machine learning and artificial intelligence in Google Cloud
- Link to Google dev profile

Launch X September 2022 –December 2022
Microsoft - Innovacción Virtual *Bootcamp*
- Microsoft program to encourage web app development
- Front-end development with HTML, CSS JavaScript, React
- Back-end development with JavaScript, Node.js, Express, MongoDB
- Deployed web app to Azure

PROJECTS

CPCFI WebPage | *TypeScript, React, NextJS, Yarn, Prisma, PostgreSQL, Tailwind* August 2023 – Present
- Enhanced the application's performance by facilitating the viewing of statistics for participants, streamlining the problem assignment process for coaches, and enabling the development of problems in the page's compiler
- Added features to the web application that improved user interaction and provided more useful information
- Performed unit tests on the application to ensure its accuracy and reliability, resolving several bugs in the process
- Link to CPCFI WebPage

TECHNICAL SKILLS

Languages: English (Proficient), Spanish (Native)
Programming Languages: C/C++, Java, Python, JavaScript/TypeScript, HTML/CSS, SQL, Dart
Frameworks: React, NextJS, Node.js, Express, Flutter
Developer Tools: VS Code, Git/GitHub, Google Cloud/Azure, VMWare/VBox, Bash/PowerShell