

Alejandro Gutiérrez Grimaldo

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EDUCATION

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

EXPERIENCE

Engineering School Competitive Programming Club 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

Dataton Anticorruption December 2023
Secretaría Ejecutiva del Sistema Nacional Anticorrupción (SESNA) Hackathon

- 4th place in the hackathon
- Created a graphical user interface using Django and React to visualize the algorithm's results, making them easy to understand and interpret

IEEEExtreme 17.0 contest November 2023
IEEE - UNAM Hackathon

- Engaged in the IEEEExtreme programming competition, collaborating within a team to solve challenging problems and demonstrate proficiency in coding, problem-solving, and teamwork under time constraints
- Designed and implemented algorithms to solve problems in the competition using C++ and Python

International Space Apps Challenge October 2023
NASA - AEF (Mexican Space Administration) Hackathon

- Contributed to a NASA-hosted hackathon, developing an app addressing the "What's up with the water?" challenge, emphasizing the importance of water bodies for the environment.
- Led the creation of a user-friendly chatbot using Google's LLM Palm2, providing continuous assistance to users.
- Designed the app's homescreen, integrating prompts for the chatbot and presenting solutions to water-related issues.

Subete a la nube 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, infrastructure network, security, data, machine learning and artificial intelligence in Google Cloud

Launch X September 2022 – December 2022
Microsoft - Innovación Virtual Bootcamp

- Mastered full-stack web development with front-end (HTML, CSS, JavaScript, React) and back-end (JavaScript, Node.js, Express, MongoDB) skills
- Successfully deployed a web application to Microsoft 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