

# Alejandro Gutiérrez Grimaldo

+52 55 1401 6983 | [alejandrogim12@gmail.com](mailto:alejandrogim12@gmail.com) | [linkedin.com/in/alejandrogim12](https://linkedin.com/in/alejandrogim12) | [github.com/AlexGrim12](https://github.com/AlexGrim12)

## SUMMARY

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Highly motivated Computer Engineering student with a strong foundation in competitive programming, web development, and cloud computing. Proven ability to collaborate effectively in hackathons and team environments. Seeking an opportunity to leverage technical skills in C++, Python, JavaScript, and relevant frameworks to contribute to innovative projects within a dynamic and challenging environment.

## EDUCATION

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

## EXPERIENCE

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**Engineering School Competitive Programming Club** February 2023 – Present  
*CPCFI - UNAM* Club - ICPC

- Active member of the third generation of the competitive programming club.
- Successfully implemented algorithms in C++ to solve complex problems, achieving a top 20% ranking in the ICPC Mexico 2023 contest.
- Collaborated effectively on the development of a web application for statistics and tools, enhancing its functionality and user experience.

## HACKATHONS & COMPETITIONS

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

- Achieved 4th place, showcasing strong problem-solving and collaborative abilities.
- Developed a user-friendly interface using Django and React for algorithmic result visualization, facilitating data analysis and insights.

**IEEE Xtreme 17.0 contest** November 2023  
*IEEE - UNAM* Hackathon

- Collaborated effectively within a team to solve challenging coding problems under time constraints, demonstrating adaptability and teamwork skills.
- Designed and implemented efficient algorithms using C++ and Python, showcasing strong programming expertise.

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

- Led a team in developing an app for the "What's up with the water?" challenge, demonstrating leadership and initiative.
- Created a chatbot using Google's LLM Palm2 to provide users with continuous assistance and information, showcasing proficiency in AI and natural language processing.
- Designed the app's homepage to seamlessly integrate chatbot prompts and present solutions effectively, demonstrating user interface design skills.

**AngelHack México** July 2023  
*AngelHack* Hackathon

- Secured second place in the social responsibility track, highlighting a commitment to impactful projects.
- Developed a food product marketplace application, demonstrating proficiency in full-stack development.
- Integrated OpenAI API to analyze images and automatically generate product titles and descriptions, showcasing expertise in AI and machine learning.
- Enhanced user experience by streamlining the product listing process, demonstrating a focus on usability.

**AI Lab School Hackathon** May 2023  
*AI Lab School in collaboration with Iollin* Hackathon

- Developed an enterprise assistant application, demonstrating a strong understanding of business processes and AI applications.

- The application analyzes market data (CEOs, news, trends) and generates marketing strategies, showcasing data analysis and strategic thinking skills.
- Utilized generative AI to create social media post strategies, demonstrating expertise in AI content creation and marketing.

## COURSES & CERTIFICATIONS

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### Cisco Winter Incubation Program

January 2024 – April 2024

*Cisco*

*Certification*

- Completed the Network Technician Career Path, gaining expertise in network fundamentals, routing, switching, and security, expanding my knowledge base in network technologies.

### Subete a la nube

September 2023 - October 2023

*Google - INROADS Mexico*

*Google Skills Badges*

- Acquired comprehensive knowledge in Google Cloud computing fundamentals, infrastructure, security, data, ML, and AI, demonstrating a strong understanding of cloud technologies.

### 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 (Node.js, Express, MongoDB), showcasing a strong foundation in web development technologies.
- Successfully deployed a web application to Microsoft Azure, demonstrating cloud deployment and DevOps skills.

## PROJECTS

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### CPCFI WebPage | *TypeScript, React, NextJS, Yarn, Prisma, PostgreSQL, Tailwind*

August 2023 – Present

- Enhanced application performance by optimizing code and streamlining processes for viewing participant statistics, problem assignment for coaches, and problem development within the page's compiler, demonstrating a focus on efficiency and optimization.
- Implemented new features to improve user interaction and provide valuable information, showcasing a commitment to user experience and functionality.
- Conducted unit tests to ensure application accuracy and reliability, resolving multiple bugs, demonstrating attention to detail and quality assurance.
- [Link to CPCFI WebPage](#)

## TECHNICAL SKILLS

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**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