

# Alexey Mitjaew Hupat

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## EDUCATION

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### Universidad Técnica Federico Santa María

Enero 2020 — Diciembre 2025

*Ingeniero Civil Telemático*

*Región Metropolitana, Campus San Joaquín*

- Academic Merit for five consecutive years (academic score weighted average  $\geq 80$ ).
- Attended courses in Web & Mobile Application Design, Software Engineering, Analysis & Design of Software, Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, Computer Networks, Database Systems, Cryptography & Information Security, Machine Learning, Computer Vision.

## WORK EXPERIENCE

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### Frontend Developer Intern

Jun 2022 — Aug 2022

MyFuture AI

*Remote*

- Led frontend development for a productivity-oriented chatbot
- Tools used: TypeScript, ReactJS, Tailwind CSS, and Redux

### Freelance Fullstack Developer

Sep 2022 — Dec 2022

MyFuture AI

*Remote*

- Developed data-oriented fullstack solutions for a one-time contract
- Created a datapanel for accessing global KPI and data visualization
- Tools used: FastAPI, MySQL, ReactJS, Google Charts

### Software Engineering Intern

Ago 2025 — Dec 2025

Universidad Técnica Federico Santa María, Hybrid

*Universidad Técnica Federico Santa María*

- Developed Backend Systems for Teloprogramo, an AI-powered coding challenge platform for STEM students with personalized exercises and real-time feedback
- Project selected for IDEa I+D 2025 innovation funding ([#InnovacionUSM](#)) for creating an inclusive system with accessibility features for visually impaired users
- Built systems for dynamic C++/Python challenge generation with unit test creation and code parsing/compilation
- Tools used: LLM for reference solution generation, pybind for C++ solution integration, and unittest (standard python lib) for dynamic unit test creation

## PROJECTS

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### Fullstack Developer, Kokoro Chat

<https://gitlab.com/amitjaew/kokoro-ai>

- Developed a 3D AI companion with a complete and customizable experience
- Key functionalities: upload custom 3D character models (VRM standard), live text-to-speech rendering with lipsync, and customizable character personalities via prompt modification
- Tools used: Docker, FastAPI, Langchain, ScikitLearn, ReactJS

### Fullstack Developer, Satoshis Palace

<https://gitlab.com/amitjaew/casino>

- Developed a mobile-friendly online casino supporting multiple cryptocurrencies
- Implemented Slot Machine Abstract Factory pattern to create multi-stage slot machine games with minimal code
- Enabled dynamic cryptocurrency switching for bets during gameplay
- Tools used: Docker, NestJS, Colyseus, RabbitMQ, ReactJS

## SKILLS

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- **Programming Languages:** JavaScript, TypeScript, Python, C/C++, HTML/CSS, Java, Dart, Bash
- **Technologies:** React, Svelte, Tailwind CSS, FastAPI, NestJS, Docker, Colyseus, RabbitMQ, Redux, Google Charts, Langchain, ScikitLearn, UNIX, Git, AWS