

# Alexey Mitjaew Hupat

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## EDUCATION

### Universidad Técnica Federico Santa María

Ingeniero Civil Telemático

Jan 2020 — Jan 2026

Región Metropolitana, Campus San Joaquín

- **Academic Merit Award** for five consecutive years (weighted academic score 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

### Frontend Developer Intern

MyFuture AI

Dec 2023 — Feb 2024

Remote

- Worked on frontend development for a productivity-oriented chatbot
- Implemented dynamic and responsive features to improve accessibility and user experience across multiple devices
- **Tools used:** TypeScript, ReactJS, Tailwind CSS, and Redux

### Freelance Fullstack Developer

MyFuture AI

Mar 2024 — Jun 2024

Remote

- Developed data-oriented fullstack solutions for a one-time contract
- Created a datapanel for accessing global KPI and inventory/sales data visualization
- Optimized database performance by implementing indexing on frequently queried columns, reducing general query execution time by 40%
- **Tools used:** FastAPI, MySQL, ReactJS, Google Charts

### Software Engineering Intern

Universidad Técnica Federico Santa María

Aug 2025 — Jan 2026

Hybrid

- Developed Backend Systems for Teloprogramo, an AI-powered coding challenge platform for STEM students with personalized exercises and real-time feedback
- Project selected for IDEIA I+D 2025 innovation funding 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:** Language Model Inference, PyBind, UnitTest (Python library)

## PROJECTS

### 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, SQLAlchemy, PostgreSQL

### Fullstack Developer, Satoshis Palace

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

- Prototyped 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, MySQL

## SKILLS

- **Languages:** Spanish (C1, Native) / English (B2, Professional), / Dutch (A1, Basic)
- **Programming Languages:** Python, JavaScript, TypeScript, Rust, C++, HTML/CSS
- **Technologies:** React, Svelte, Tailwind CSS, FastAPI, NestJS, Docker, Colyseus, RabbitMQ, Redux, Google Charts, Langchain, ScikitLearn, Git, AWS