

# Joaquin Gabriel Franco

SOFTWARE ENGINEER

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## Experience

### Woven by Toyota

Software Engineer · Full-time

Tokyo, Japan  
Oct 2023 – PRESENT

- Developed backend HTTP API service on Kubernetes deployment
- Spearheaded the design and implementation of observability via Prometheus monitored on Wavefront UI
- Integrated with Slack to create service monitoring alerts for faster engineering response
- **Technical Skills:** Python, Golang, Gherkin, AWS, Github Actions
- **Soft Skills:** Agile Methodologies (Scrum), CI/CD, Software Design

### Woven Planet Holdings

Infrastructure & Services Engineer · Internship

Tokyo, Japan  
Sep 2022 – Dec 2022

- Developed a latency monitoring service that provided real-time node insights to improve visibility for network engineers
- Deployed the latency monitor in virtual network using Nomad and Docker
- **Technical Skills:** Python, Nomad, InfluxDB, Docker, Vagrant, Git
- **Soft Skills:** Agile Methodologies (Kanban), Team Communication

## Projects

### Fizzbuzz-as-a-Service

Python (FastAPI), Typescript, React

Hobby Project  
2024

- Developed and deployed FastAPI-based REST API to generate FizzBuzz sequence
- Implemented Pytest and Behave for backend testing, run on pre-commit hooks and CI
- Created frontend with React to provide graphical interface with the API

### Point-Cloud Generator Using Neural Radiance Fields (NeRF)

Python, PyTorch, NumPy, Open3D

Undergraduate Thesis  
2023

- Applied orthogonal NeRF to estimate 3D scene shape from as little as 25 images
- Implemented Open3D library to generate point-clouds
- Collaborated with members of Tokyo University of Agriculture & Technology to implement technology in holography applications

### Computer Vision Ball Tracker

Python, OpenCV, NumPy

University Project  
2021

- Designed and developed a motion-tracking CV program to isolate a ping-pong ball and track its motion via live webcam feed
- Improved build to raise tracking data accuracy from 20% to 80%

## Education

### Nagoya University

BEng Mechanical Engineering

Nagoya, Japan  
2019 – 2023

- G30 Automotive Engineering Program
- **Relevant coursework:** Computer Software, Linear Algebra, Calculus, Mathematics for Machine Learning, Image & Signal Processing

## Skills

**Programming** Python, Golang, Bash, Gherkin

**Libraries & Frameworks** OpenCV, Poetry, PyTest, Flask, FastAPI, Gin-Gonic, Behave

**Developer Tools** Ubuntu, Terminal, Git, Docker, Kubernetes, Ansible, Github, JIRA, Artifactory, AWS, Terraform

**Hardware & Prototyping** Arduino, Raspberry Pi, Breadboarding

**Spoken Languages** English (bilingual fluency), Japanese (conversational fluency), Filipino (native fluency)