Giovanni Tommasi

AI · WEB · GRAPHICS

Computer Science Engineer working across full-stack web applications, artificial intelligence and computer graphics. Researched at Shanghai Jiao Tong University and graduated at Politecnico di Milano.



G. TOMMASI MI / IT

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EXPERIENCE 01

2024 — PRESENT

Fankee

FOUNDING ENGINEER

- Designed and built **fan-engagement platforms** on behalf of famous artists (HUGEL, David Guetta).
- **End-to-end ownership** of a media-intensive platform serving **10k+ users**.
- Built a **progressive web app** and website that stream music and let fans **buy shares of a song**.
- Feature design and implementation **end to end**, owning the **architectural decisions**.
- Managing **external software houses**, teams and freelancers — choosing the right tools and aligning partner teams.
- Currently prototyping the **native mobile app**.

Next.js · React · TypeScript · Tailwind · Supabase · Vercel

2020 — 2024

Mia-Platform

FULL-STACK DEV · EXPERT

- Product team building a **digital integration hub** — microservices, composable architectures, Kubernetes.
- **Maintainer** of the design system's component library (Storybook, Figma design tokens).
- Led platform **themification** (dark mode) and set up the design-system open-source library.
- Built a **modular back office** — microfrontends, Web Components, StencilJS, micro-lc.
- Integrated Git providers (Azure DevOps, Bitbucket) · **trained and mentored** junior team members.

React · Redux · Ant · Stencil · Storybook · Node · Fastify · Mongo · K8s

STACK & TOOLS 02

LANGUAGES

TypeScript · JavaScript · Python · Java · Swift

FRONT-END

React · Next.js · Redux · Tailwind · MUI · Stencil · Storybook · Figma

BACK-END & DATA

Node.js · Fastify · GraphQL · Relay · Supabase · MongoDB · Postgres

CLOUD & TOOLING

Docker · Kubernetes · Vercel · GitLab · Playwright · Jest

AI & ML

Claude · Codex · PyTorch · TensorFlow · Keras · scikit-learn · Pandas

GRAPHICS & PROTOTYPES

OpenCV · Blender · WebGL · Arduino · Raspberry Pi

MEDIA

Final Cut Pro · Premiere Pro · Photoshop · Lightroom

ACHIEVEMENTS & RESEARCH 03

Google Hash Code 2022

Team "Gophing Around" — optimization coding competition.

99TH WORLDWIDE
3,360,259 PTS

Neural Scene Rendering

MSC THESIS · 2020

Reconstructing novel viewpoints of realistic 3D scenes filmed with multiple depth cameras; latent-space generation with a Variational Autoencoder and volumetric raytracing.

Python · PyTorch · Blender · Google Colab

Abbot

PUBLICATION · AVI 2018

Accepted paper for the International Conference on Advanced Visual Interfaces. Object recognition with Google Cloud Vision, a Swift mobile app, and an exploratory study with 160 children.

Swift · Google Cloud Vision · Raspberry Pi · Arduino Nano

Helmate

HONDA MOTOR @ POLIFACTORY · 2018

Hands-free voice control in a wearable object designed with car-design students; bone-conduction speakers and laryngophone.

Linux · PocketSphinx · BlueZ

EDUCATION 04



Politecnico di Milano

MSc Computer Science & Engineering — 2014 – 2020

Master 109/110 · Bachelor 99/110 · Thesis: Neural Scene Rendering



Shanghai Jiao Tong University

Researcher — 2018 – 2019

Digital Media & Data Reconstruction Laboratory · **GPA 3.76 / 4.0**

SELECTED PROJECTS 05

Video Manager — 2022

Web app to stream and organize video files in folders.

`MUI · Relay · GraphQL · GridFS`

Fashion-MNIST Classification — 2019

Comparison of machine-learning models categorizing clothes.

`Jupyter · scikit-learn`

Room Reconstruction — 2018

Layout & corner estimation, depth map, mesh extrusion from a single image.

`LayoutNet · OpenCV`

Room Planner — 2019

Graphic engine rendering an interactive 3D room and placing furniture.

`WebGL 2.0`

Style Transfer — 2018

Optimizing the performance of the Gatys style-transfer architecture.

`Convolutional Neural Networks`

SiamFC Object Tracking — 2019

Implementation and hyperparameter tuning of a real-time object-tracking algorithm.

`Siamese Nets · TensorFlow`

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