

# SIMONE TASSI

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## EDUCATION

### Computer Science - Bachelor Degree

*Alma Mater Studiorum - Università di Bologna*

Sept. 2020 – March 2024

Bologna, IT

### Scientific High School Diploma

*Liceo Scientifico E. Fermi*

Sept. 2015 – June 2020

Bologna, IT

## EXPERIENCE

### Software Engineer

*Archeion*

May 2024 – Present

Bologna, IT

- Developed a code (barcode/QR) scanner component using Ionic Capacitor with Angular for multiplatform deploy
- Implemented REST APIs (NestJS, Prisma)
- Created Ionic Angular UI components integrating external libraries and frameworks (MapboxGL, chart.js)
- Integrated OAuth 2.0 authentication process into Android application

### Information Technology Support Specialist

*Fondazione Cardinale Giacomo Lercaro*

July 2021 – Present

Bologna, IT

- Communicated with customers to set up audio and video equipment in various conference rooms
- Managed Zoom Meetings (with breakout rooms), Facebook Lives
- Recorded conferences using audio and video mixers

### Android & IoT/WoT Developer - Internship

*IoT Prism Lab (Alma Mater Studiorum - Università di Bologna)*

Oct. 2023 – Jan. 2024

Bologna, IT

- Created a Android Native application (Java) to orchestrate multiple IoT devices via user vocal or text prompt
- Interacted with OpenAI GPT-4 APIs from a Native Android application
- Applied prompt engineering techniques to GPT-4 to enhance code and text generation quality
- Implemented a flow-based node editor to automatically generate code (Angular)
- Containerized various web applications (Docker)
- Implemented REST APIs (NestJS)
- Used WoT paradigms to interact with IoT devices
- Setup a RaspberryPi server to host WoT Things and execute code on LAN
- Setup a Google Cloud server to host WoT Things and execute code on cloud

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL (Postgres), TypeScript, JavaScript, HTML/CSS, bash

**Frameworks:** Node.js, Angular, Ionic, Material-UI, Bootstrap, rete.js

**Developer Tools:** Git, Docker, Google Cloud, VS Code, Android Studio