

# ALLEGRETTI Kenzo

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## SOFTWARE ENGINEER

Motivated and ambitious software engineer from France with a passion for learning and mastering new technologies. After graduating, I moved to Australia to improve my English and immerse myself in a diverse, international environment. I am eager to take on new challenges and continuously grow both personally and professionally, with a strong focus on problem-solving and innovation.

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## SKILLS

**Backend:** C, C++, Python, Django REST, Node JS

**Frontend:** React JavaScript / TypeScript, HTML, CSS

**Mobile:** React Native, Swift UI

Git, Docker, Figma

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## PROJECTS

### Transcendence

Developed a **full-stack web application** featuring an online real-time 3D Pong game, with integrated live chat for in-game communication.

Implemented user management features such as friends lists, game history, and statistical analysis.

Utilized **Django Rest Framework** and **PostgreSQL** for backend data management and API integration.

### Cub3d

Development of a first-person shooter game entirely in **C**, including the creation of a **custom ray-casting algorithm** for 3D rendering and the use of a basic graphics library. Focused on **optimizing performance** and ensuring smooth gameplay. Designed the game mechanics, environment, and player interactions from scratch.

### ft\_IRC

Developed an IRC server fully compliant in **C++** with standard RFC protocols, implementing key features such as messaging, channel management, and user authentication. This project involved a strong focus on network programming, working with sockets, and ensuring seamless communication between clients, while adhering to industry standards for protocol implementation.

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## EDUCATION

### 42 School ,Nice, France (2022 - 2024)

Selective computer science program focused on peer-to-peer learning.

Developed strong skills in problem-solving, and full-stack web technologies

### Bachelor's degree in Mathematics (2019 - 2022)

Université Côte d'Azur, Nice, France

### French High School diploma, Science major

Lycée Parc imperial, Nice, France

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## PROFESSIONAL EXPERIENCE

### IT Maintenance Technician (part-time, 2020 - 2022)

#### Rio Managed Services

Diagnosing and resolving technical issues and updating network servers. Developed strong problem-solving skills and attention to detail, ensuring efficient operations and minimal downtime.