



# YOSSEF ROSTAQI

System Software Engineer, EU citizen willing to relocate

3+ Years of Experience — Paris, France

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## Experience

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### Intersec

December 2021 – Now

*C Software Engineer | C, Python, Bash, GDB, clang, ASAN*

*Paris, Île-de-France*

- Developed C software within the R&D Telecommunications team, the driving force behind Intersec's position as the leading EU provider, leveraging advanced 5G technologies to enhance mobile device localization, prioritizing swift alerts and fortifying life-saving capabilities for our public safety warning systems that covers over 400 million people.
- Led the development of the Mobile Terminated Location Requests support in direct modes (Model A and Model B) to the GMLC, allowing active geolocation of mobile devices in 5G networks.
- Developed and implemented Network Induced Location Request support within the GMLC software, ensuring seamless emergency call handling in 5G networks.
- Wrote a parser in Python to convert 3GPP OpenApi specification files written YAML to convert them into our internal object packer.
- Developed a library to validate objects/payloads against the OpenApi specification to ensure specification compliance to help all future 5G-related developments.

### Alcatel-Lucent Enterprise

September 2019 – September 2021

*Software Engineer Apprentice | Angular, WebAssembly, Node.js, React.js*

*Strasbourg, Grand-Est*

- Developed the Rainbow Web client written in Angular, Rainbow is a business communication platform offering workspace chat and videoconferencing used by 3 million+ users and is ranked on the Gartner Magic Quadrant™ for UCaaS.
- Accomplished the integration of the virtual background feature, allowing users to apply a blur effect or a custom background on their webcam stream using a TensorFlow model and with good performance thanks to WebAssembly.
- Incorporated Webpack optimizations such as Ahead of Time Compilation to make the application run faster.
- Collaborated with the back-end team to implement the XMPP extension allowing for message forwarding, as well as sharing a position to another end-user.
- Utilized Facebook's open-graph protocol to exploit meta-tags of a shared link to decorate it with useful information (such as the title, thumbnail, date, ...) on the client.
- Examined ways to create an extension system for Rainbow using applets, one example of extension was the addition of a panel ranking every participant of a conference by how much time they talk with animated transitions using React.js.

### Impact Web

September 2018 – January 2019

*Web Developer Intern | PHP, Java, HTML/CSS/JS*

*Strasbourg, Grand-Est*

- Development and Web integration in a website creation agency for multiple organizations.
- Advised business owners on how to use their Content Management System and help their Search Engine ranking.

## Education

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**Master of Science in Software Engineering**

Sep. 2019 – Sep. 2021

**Bachelor of Science in Computer Science**

Sep. 2016 – Mai. 2019

*University of Strasbourg*

*UFR Math-Info, Grand Est*

## Relevant Coursework

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- Data Structures
- Software Methodology
- Algorithms Analysis
- Compilation
- Large Scale Processing
- Object-oriented architecture
- Mobile & Web Programming
- Embedded Systems
- Real-time Programming

## Projects

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**Fifa Pro Clubs Bot** | *Node.js, Typescript, MongoDB, Redis*

May 2021

- Developed a bot for Discord servers using Node.js to enrich game sessions on Pro Clubs using the game's API.
- Implemented the search for clubs function to allow a server to set its own Fifa Club and get information on their last games, the status of their team, the region they play in, etc.
- Used a MongoDB database to store the needed information and retrieve the stats of a club.

**Excel 2077 VR** | *A-frame, JavaScript, Node.js, Docker*

April 2021

- Created a Virtual Reality experience that allows for viewing large datasets in a 3D environment instead of R-Studio.
- Sent user inputted R commands to the back-end API and return the result in the front-end.
- Experimented on how to show the tables in a VR environment, the suitability depends on how much columns there are.

## Technical Skills

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**Languages:** C/C++, Python, JavaScript, Bash

**Developer Tools:** Vim, Gerrit, Linux, Wireshark, Webpack, Docker, Git

**Technologies/Frameworks:** Node.js, Angular, React.js/Native, MongoDB, SQL (Oracle, MySQL)

## Miscellaneous

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**Spoken Languages:** English (advanced), French (native), Persian (native)

**Mobility:** Willing to relocate (EU citizen), driving license

**References:** Available on request