

Oubaye El Ghammat Ghor

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INTRODUCTION:

As a Computer Science graduate from a top 10 UK university and 120+ worldwide, I am passionate about using technology to solve complex challenges and improve lives digitally. My expertise in programming languages, including Java, C, Javascript and Python to date, has motivated my involvement in both collaborative team projects and individual initiatives. Lately, my research has focused on improving blockchain consensus protocols through sharding, demonstrating my commitment to advancing the field of computer science and programming.

SKILLS :

- **Languages:** Java, C, Python, JavaScript, TypeScript
- **Frameworks:** React native, Next.js , Django, [Node.js](#), vue.js
- **Web Development:** HTML, CSS, PHP
- **Databases:** MySQL, SQLite, RDMS
- **Tools:** Git, Docker
- **Soft Skills:** Team Work, Problem solving, Communication, Leadership, Flexibility, Innovation

EXPERIENCE & PROJECTS:

Full stack developer internship at JORDI HANS DESIGN (Sweden) : 2023 - 2024

- Built a Social Media App Using **React native.**, **Firebase Real time database**, **expo framework** and **REST API**.
- Involved bug fixes and website development for clients.
- Presented and evaluated the progress of the current mobile application to the UI/UX design team.

Next Generation of Blockchain Consensus Protocols Research (Individual Project) : 7 months

- Extended a **JAVA** open source realistic blockchain simulator to support **sharding** and its protocols, and the **consensus PBFT protocol**.
- Implemented an algorithm that migrates accounts that trigger the majority of ethereum transactions to least loaded shards for performance and 100% load balance which **resulted** in stable performance and reduced network bottleneck issues that would occur in a real **blockchain network**. Tests were done using 1 million transactions per minute.

Pixel Paint Editor (Group Project) : 2 months

- Collaboration to build a pixel paint editor from scratch using **Java**, without external libraries.
- Involved using **java Threads**, **concurrency** methods and **java GUI**.

FAT 16 file system program : 2 months

- Developed a software that reads through a fat 16 file system of clusters and outputs its contents in **C** having to access the kernel level of the system and outputs what it has that includes the file content.

Where2 Travels (Founder) : <https://where2travels.vercel.app> 3 months (on going)

- An online travel website developed using [Next.js](#) and Duffel API service. Where2 travels allows travelers to find a trip already bundled with roundtrip flights and hotels within the selected budget. It saves time, multiple tabs and days of research. Users select a budget, nationality for visa free destinations options and the month or day they are willing to travel and the algorithm will match flights and hotels within the selected budget where they can pay for the whole trip in one click.

EDUCATION & QUALIFICATIONS

Lancaster University - BSc Hons Computer Science bachelor's Degree	2020 - 2024
Ibn tofail high school - English Baccalaureate in Physics and Maths	2013 - 2019

ADDITIONAL INFORMATION: Languages : English, French, Spanish, Arabic