Maxime Rigout

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Education

2020-present – Master of Science in Mathematics at Sorbonne University, Paris, France (remote).
2017-2020 – Bachelor of Science in Mathematics at Sorbonne University, Paris, France.

Personal Projects

Shopping List Assistant:
● Built an **Android App** in **Java** that displays a shopping list and generates suggestions based on user shopping habits. ● Uses **the Room Persistence Library** to store user data.

Chess Engine:
● Wrote a custom chess engine in **C++**. ● Implemented the **MinMax** algorithm for **AI**.

Custom Raspberry Pi Server:
● Wrote a custom **Linux server** in **C++** that runs on a Raspberry Pi from scratch. ● Communication with the server is handled using **Linux network sockets**. ● **Multi-threading paradigm** to handle new connection and communication with clients.

Input Mimic (Remote):
● Wrote a multi-threaded program in **C++** that allows a user to control a computer using another computer's mouse and keyboard. ● Built a **GUI** using the **Win32 API** to make the configuration of the software easier. ● Implemented a **Client/Server architecture** using **Windows sockets**.

Newtonian Gravity Simulator:
● Built a planet visualization program in **Go Lang** simulating Newtonian gravity.

Professional Experience

2016-2017 – *Detection and Investigation Analyst Senior, PNC Bank (Pittsburgh, PA, USA):*
● Responsible for investigating, researching and providing error resolution for customer disputes. ● Lead initiative to identify issues in our work processes, and making plans to improve work efficiency through software updates. ● Responsible for training new hires. ● Promoted to the Senior position in late 2017.

2015-2016 – *Teller, PNC Bank (Pittsburgh, PA, USA):*
● Responsible for processing customer transactions. ● Advertising products and services to customers. ● Responsible for ordering and shipping out cash for the branch. ● Responsible for managing the ATMs.

Skills

Spoken languages:	Bilingual: French, English.
Programing languages:	C, C++, Python, Java, JavaScript.
Frameworks and API:	Android development, Win32, Windows/Linux network sockets, React, Firebase.