Yifan **Rigny**

CS STUDENT LOOKING FOR A 6-MONTH INTERNSHIP IN SOFTWARE ENGINEERING, STARTING FROM MARCH 2025

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Skills

Programming Languages: C, C++, Python, JavaScript/TypeScript, Bash
Tools & Frameworks: Git, HTML/CSS, Docker, Kubernetes, Nginx, SQL, React, Figma, LaTex
Cloud Platforms: Google Cloud, AWS, Azure
Concepts: Unix Systems, Low-level Programming, Network Programming, Computer Graphics, Virtualization, Concurrency, Complexities

Projects

Hackathon Google Cloud × LCL Bank (1st prize)   *[Demo] [Presentation]*

CONVERSATIONAL VOICE CHATBOT DEVELOPED FOR BANK IN 36 HOURS   *Sep 2024*

- Built a conversational agent with technologies including **Google Dialogflow, Vertex AI, Cloud Functions, Cloud Storage & Datastore**.
- Implemented Google's **SpeechToText** and **TextToSpeech** API, providing a more accessible and user-friendly interface.
- Trained and refined the language model to deliver the most relevant answer in various flows.

MiniRT

#C-PROGRAMMING #RAY-TRACING #3D-RENDERING #COMPUTER-GRAPHICS #EUCLIDEAN-VECTOR   *Jul 2024 - Sep 2024*

- Developed a ray tracing engine to render 3D scenes, including geometric objects, materials, lighting, shadows, and reflections.
- Focused on understanding the math and logic behind **ray tracing algorithms** to generate images from user-defined viewpoints.
- Implemented BVH traversal, **optimizing rendering performance by 60%** in complex scenes.

MiniShell

#C-PROGRAMMING #BASH #COMMAND-LINE #SYSTEM-CALLS #PROCESS-MANAGEMENT #PARSING   *Mar 2024 - May 2024*

- Developed a custom Unix shell with support for built-in commands, pipelines, and multiple input/output redirections.
- Implemented a complete parser to efficiently handle user input. Enabled robust **error handling** through signal-based controls.

PushSwap

#C-PROGRAMMING #SORTING-ALGORITHM #TIME-COMPLEXITY #DATA-STRUCTURE #LINKDED-LIST   *Jan 2024*

- Conceived a stack-based sorting algorithm to sort data using a specific set of operations with least possible moves.
- Optimized memory access and **reduced 25% instruction cost** for large scale data set through custom data structures.

Work Experience

FTL Group   *Paris, France*

ACCOUNTANT (FULLTIME, CDI)   *May 2022 - Oct 2023*

- Adapted quickly to new AI-powered accounting software, ensuring seamless integration and efficient workflow.
- Demonstrated analytical skills, producing accurate and timely financial reports.

TP-Link France   *Vélizy-Villacoublay, France*

FINANCIAL ASSISTANT (FULLTIME, CDI)   *Aug 2021 - May 2022*

- Analyzed sales and financial data to optimize processes, supporting strategic business decisions.
- Maintained high attention to detail, ensuring accuracy and precision in financial operations.

Education

42 Paris   *Paris, France*

MASTER IN COMPUTER SCIENCE: ADVANCED IT ARCHITECTURE AND DATA MANAGEMENT   *Nov 2023 - Nov 2026*

Montpellier Business School   *Montpellier, France*

MASTER OF SCIENCE IN FINANCE   *Sep 2019 - Jul 2021*

Beijing Language and Culture University   *Beijing, China*

BACHELOR OF ECONOMICS, MINOR IN ENGLISH   *Sep 2015 - Jun 2019*

Activities & Interests

Leadership: Organized team-building events for university's 200+ person student union; Co-chaired a local NPO and organized a NightRun event with 500+ participants; Set up a VPN on a VPS and taught 20+ friends to bypass internet censorship
Volunteer Work: Member of JeVeuxAider.fr assisting local communities; Content translator for DailyArt App; Volunteer at MusiLac Festival (2024)
Activities: Climber, bass player, photographer, cyclist, backpacker (traveled to 30+ countries, immersing in diverse cultures)