

# Nicolas Ollivier

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## EDUCATION

### New York University

Bachelor of Science in Computer Science, Minor in Finance

- GPA: 3.56/4.0, Dean's List (2024-2025)

September 2023 – May 2027

New York, NY

## EXPERIENCE

### AI Research Fellow

Handshake AI (Project: Spectra)

October 2025 – Present

New York, NY

- Evaluated production LLMs for a enterprise client, improving user alignment and response quality
- Performed error-mode analysis and quality benchmarking on hundreds of model outputs
- Maintained training data pipeline by reviewing error analyses from distributed contributors

### Software Engineering Intern (C#)

Mayflower Worlds (Project: Balloon Bats)

May 2025 – August 2025

Raleigh, NC

- Rearchitected core networking logic for a small VR game startup, fixing 50+ networking bugs in the process
- Redesigned store backend using **C# + PostgreSQL** to support 3 times more product types, directly enabling a growth in average revenue per paying user of 195% from May to June
- Wrote synchronization code for 30+ new products which generated 60% of company revenues June-July
- Created a visual **React + Node** dashboard to provide the founders with key insights into user spending, which enabled the founders to identify the game's biggest customers and best-selling products
- Implemented occlusion culling and lightmap baking to optimize performance, increasing FPS by 32%
- Prototyped a 3D cave generation algorithm in Blender's Python API for a minigame played by 10,000+ players
- Designed 3 new minigames, resulting in a 2x increase in player retention rate from June to August

### Software Engineering Intern (Python)

Thai Informatic Systems

July 2022 – August 2022

Bangkok, Thailand

- Deployed a full-stack chatbot with JavaScript + Google Dialogflow to an internal website
- Created a Python forecasting web-app with Matplotlib to prototype a new feature

## PROJECTS

### Pick My Bite | React Native, AWS, PostgreSQL

June 2025 – August 2025

- Developed a full-stack **React Native** mobile app with a serverless **Node.js** backend hosted in **AWS Lambda**
- Implemented location-based caching for **Google API** requests using a **PostgreSQL database** to reduce costs

### Ollama Market | Python, Flask, Numpy, Ollama, Kokoro

September 2024 – April 2025

- Developed a stock market simulation powered by local LLMs
- Implemented agentic tooling with Gemma-3-4B and the Ollama framework
- Added real-time local text-to-speech market commentary with Kokoro-82M
- Designed an efficient order-matching engine in Cython with an 2 microsecond average order latency
- Created a Flask HTTP server and JavaScript frontend to visualize the output

## TECHNICAL SKILLS

Languages: Python, C++, C#, JavaScript (Node, React), SQL, Java

Frameworks/Tools: MS Office, Flask, Express, React Native, AWS, Google Cloud, PostgreSQL, Git