



KARIM BOUCHAARA

BIOINFORMATICS M2 STUDENT

Looking for **6 month internship** (mid Jan 2026)

M2 Bioinformatics student with experience in structural bioinformatics, omics data analysis and HPC.

I have already completed two academic research internships and now wish to join a biotech/pharma or start-up to apply my skills on real-world products and pipelines.

CONTACTS



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<https://github.com/karimbchr>



<https://karimbchr.github.io/>

SKILLS

- **Programming**

Python, R, bash, SQL, HTML, Java

- **Bioinformatics**

Protein Docking, BLAST, Iso-Seq PacBio

- **ML / Deep Learning**

BiLSTM, Conv1D, Transformer, scikit, PyTorch

- **HPC**

Linux, SLURM, Singularity/Apptainer

- **Data Analysis**

Data wrangling, statistics, visualization

HOBBIES

- Climbing (USMA Club)
- Solo travelling (Interail)
- Skateboarding

LANGUAGES

ENGLISH / PRO LEVEL

FRENCH / NATIVE

EXPERIENCE

Bioinformatics Intern

RPBS, PARIS

MARCH 2025 - JUNE 2025

- Reproduced the RFpeptides pipeline for cyclic peptide design
- Launched large modelling campaigns on a GPU cluster
- Analysed RMSD and pLDDT scores and produced plots

Bioinformatics Intern

INRAE, SOPHIA-ANTIPOLIS

JUNE 2024 - AUGUST 2024

- Deployed tools for Iso-Seq PacBio data on an HPC platform
- Benchmarked parameters of minimap2 and gmap, visualised in IGV
- proposed improvements for long-read transcriptomics workflows

PROJECTS

RNA Folding prediction – Kaggle “Stanford Ribonanza”

- Built a Python pipeline to predict RNA chemical reactivity from sequence using BiLSTM / Transformer models
- Handled preprocessing (one-hot encoding, normalization, masking) and model evaluation

Synteny analysis in Escherichia coli

- Wrote Python scripts around BLAST to compare gene order between genomes
- Visualised conserved genomic blocks across strains

EDUCATION

Master in Bioinformatics – Biology IT

UNIVERSITÉ PARIS CITÉ – 2024–2026

Courses: bioinformatics, algorithms, peptide design, omics, analysis, statistics, ML

BSc in Life Sciences – Bioinformatics track

UNIVERSITÉ CÔTE D’AZUR (3RD IN CLASS) – 2021–2024

Courses: programming, genomics, molecular biology, statistics, modelling