Zaccarie Kanit

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in zaccarie-kanit

n2oblife

Languages

French - Native speaker English - Fluent - C1 German - Professional - B2 Arabic - Professional - B1

Skills

Programming

- Python, SQL, R, Matlab
- Java, C/C++
- Linux, bash, PowerShell
- PyTorch, LibTorch, AdapterHub
- OpenMP, xsmid, Cuda
- VHDL, FPGA, RaspberryPi, ZedBoard
- Unity, C#, Hololens
- Network, Sysadmin, Cisco
- gitlab, CI/CD, .deb, Docker
- Graphic and CLI debugging
- Azure

Office skills

- Office Pack, Google Tools and AppScript
- AT_FX
- Zapier, AirTable

Audiovisual editing

- Adobe Premier / Photoshop / Audition, Gimp
- FLStudio
- OBS

Interests

Sports

 karate black belt (8y),
 basket-ball in club (6y), biking (8y), thaï boxe (2y)

Leisures

videogames' design analysis
 (12y), bassist in a groupe (5y),
 theater at the Paris'
 Conservatory (4y), cinema
 talkshows (8y)

M1 Engineering Student looking for an internship/job as an Data Scientist starting from April 2024

Experience

Software Engineer Intern SIMULANDS

October 2023 - March 2024

- A medtech startup that develops Human Grade simulators that replicate real procedural experiences with accurate device performance insights.
- Mixed Reality Software developement: training a **Deep Learning segmentation model to track hands and surgical tools** and developing a stereovision algorithm to estimate their position / **optimizing the model and parallelizing the algorithm** to ensure **real time computation** / **designing hardware and software architecture** to improve computation / optimizing the software setup for stabilization / building AR Unity scenes / gamifying procedures to ease the learning curve.
- Database administration: migrating our subcontractor's database / creating a pipeline to perform redundant statistic analysis instead of the marketing team / training analysis to give insights on the trainings.

Research Assistant Intern CEA List

April 2023 - August 2023

- A research institute that focuses on digital systems to drive business competitiveness. Its Text and Image Analysis Laboratory studies Deep Learning models, their improvement and their use.
- Project: Researching a state-of-the-art Transformer based NLP model / developing its training pipeline in Python and implementating its conversion in C++ / training the model with CEA's cluster / developing the inference using an optimized C++ engine to achieve a high frequency of tokens computed / integrating my work into their multilingual NLP model / focusing on the documentation and sustainability of the work.

Network Administrator, Secretary, Training Manager ResE

2021 - 2023

- A technical association providing a network of +3K machines across two campuses on different cities, and enabling members to acquire essential technological skills.
- Learning the ins and outs of project management in the field of network engineering as a manager of a team of student administrators. I also ensured the legal framework of the association and its events especially when planned with professional partners as board member.
- Organizing events such as the Google Hash code and the FedeRez Days and seting training programs for students to learn from the basis of IT to advanced network skills.
- Project : Development of an inverter monitoring tool

Education

MicroMaster program in Statistics and Data Science MITx February 2023 - May 2023

- Machine Learning in Python: From Linear Models to Deep Learning 230h
- Slides and lab sessions teaching from Linear Classifier and recommander systems to Unsupervised and Reinforcement Learning with projects every week to apply the notions.

Master in Engineering specialized in Embedded Systems, Excellence Program for Research IMT Atlantique 2021 - 2025

- 5th-ranked engineering school in France.
- Mathematics, **Computer Vision**, **Data**, Sc Computing, **graph theory**, logistic optimization.
- Embedded Systems: **Algorithm-to-Chip Design & Architecture**, Low-Level Software-Hardware Interactions, **Parallel Computing**, Stochastic Dynamic Modeling, **Deep Learning Optimization**.
- School Projects: **DevOps of a Deep Learning based audio measurement service in Docker** and .deb with Orange (telecom company) / preliminary study of an electronic waste recycling startup.
- Research Projects: Implementation of a **Fast resolution algorithm in C++ to compute eeg signals in real time** / **state-of-the-art in ML comparing CNN and Vision Transformer in term of inference time and ressources consumption** / course given by myself on Inversible CMOS Logic to introduce this field of research to students in order to follow a Naoya Onizawa conference.

Volunteering

President Club Kebab

2021 - 2022

- Weekly sale of a hundred homemade kebabs on campus with a team of 8 other students.
- **Organizing the logistics and communication** of each event with a focus on hygien and security.
- Creating new partners relationship with local actors to have fresh products.

Vice-President Arts Committee

2021 - 2022

- The Art Committee is the organization which manages events and clubs on the campus. The Bureau is elected by students according to the capacity of a team to conduct art oriented events.
- I managed a team of 18 students with respective broad roles. I managed this team through my term and filled paper to ensure the legal framework and security of all the events.
- The events: concerts by students and local musicians, western France cultural events, a week of artistic events with local performers, a cultural trip in Amsterdam for 90 students.