VU Thanh Tung

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Experiences

Datadog, Paris   02/2024 - 08/2024
Software Engineer Intern
- Designed and implemented an audit system to monitor changes of metadata.
- Conducted tests to find relevant information for the audit system and verified its validity.
- Processed **more than 1 million events a day** with **P95 latency under 4 seconds.**
- Enabled full-text search of relevant information by leveraging **Datadog logs.**
- Developed a **Golang API** that supports resetting metadata to any previous state in the past 180 days.
- Instrumented code t**o monitor applications performance metrics** with Datadog.

Lab FOTON, Rennes   07/2023 - 09/2023
Research Intern
- Developed a **Qt-based application** for laser control and data analysis, facilitating optimised lab experiments.
- Achieved **10 nanoseconds synchronisation** by integrating **Python code with FPGA machinery.**
- Collaborated with physics researchers in designing the app for their experiments.

ARMOR Group, Nantes   06/2022 - 08/2022
DevOps Intern
- Deployed mock servers to run **tests on 10 different scheduling solutions,** conducted comparative analysis.
- Set up a Rundeck application in the pre-production environment **saving the IT team 30 minutes in daily ticket processing.**
- Studied and **implemented RFC5424 logging convention** in enterprise application to facilitate log processing.
- Conducted **tests on 5 monitoring tools using Docker**, proposed the most functional tool based on comparative study.
- Minimised **disk usage** on Elasticsearch and Backend server **by 90% through log rotation.**

Education

Institut national des sciences appliquées de Rennes, Rennes   2019 - 2024
- Major : Computer Science, **GPA: 3.5/4**
- Exchange study at Korean Advanced Institute of Science and Technology, **GPA: 92/100**
- Relevant coursework includes **Database, OS, Network, DevOps, DSA, High Performance Computing**, OOP, Design Pattern, Graph Neural Network, AI&ML, Reinforcement learning.

Projects (* link to Github repo on project title)

QuizzHero
- Conversation AI chatbot for course revision
- Generated quiz for revision based on taken pictures of course notes
- Evaluated user answer and gave out instant feedbacks with AI
- Generated follow-up questions for lacking knowledge based on previous answers

Sudoku
- Developed an online Sudoku game using **Angular** for the frontend and **Spring Boot** for the backend.
- Implemented undo and redo functionality to enhance user experience.
- Conducted thorough testing and debugging to ensure a stable application with **JUnit**.

Archeometal
- Description : An 3D environment to help archeologists better study artefacts, with their tools integrated.
- Developed different view modes of archeological artefacts and a 3D menu to switch between these view modes.
- Extracted data from .csv file and dynamically mapped these data to display interesting details of artefacts in 3D environment.
- Developed a custom object grabbing mechanism.
- Tech stack: **Unity3D, Git LFS**

Skills & Certificates

Programming Languages: Python, Go, Typescript, Rust
Web Development: NextJS, FastAPI, React
Storage solution: Postgres, ElasticSearch, Kafka
Certifications (* link to certificate on title)
- Spark and Python for Big Data with PySpark, Udemy
- SQL Advanced, HackerRank

Accomplishments

Finalist in Cod'INSA: Represented INSA de Rennes in a competitive programming event against other INSA schools.