

Samir Antonio Fersobe Dilone

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EXPERIENCE

N-SIDE

- *Software Engineer; Japanese/English* *October 2023 - Current*
 - **Description:** As N-SIDE's first hire in Japan, played a key role in launching the Japan office by directly engaging with the Japanese Customer (Japanese Electric Power Exchange - JEPX), understanding their requirements and providing support for the implementation of N-SIDE's clearing algorithm and market features. Contributed to the development and maintenance of high-performance platforms including EAC (Balancing Market for the UK) and Euphemia (Day Ahead Market Clearing Algorithm for Europe and other users).
 - **Notable Achievements:**
 - * Designed and implemented a market feature for JEPX that significantly **improved the efficiency of their market clearing**, significantly **decreasing average auction running time** without affecting auction performance.
 - * Led the migration of all energy department projects from JFrog's Artifactory to **Gitlab's Package Registry, enhancing our CI/CD efficiency and reducing costs** for deployments related to critical market algorithms.
 - * Led the migration of the **cloud testing module** to RDS enabling **parallel testing** of parameters and problem formulations for the development and research of the European Day Ahead Market.
 - * **Led the automation of a support module**, significantly reducing the workload of support agents and improving the efficiency of QA processes for one of our core market platforms.
 - **Tools:** Java, CPLEX, Gradle, Terraform, Gitlab CI, AWS, Python, Kubernetes, Docker, Helm, Tilt.

Edgio

- *Solutions Engineer; Japanese/English* *May 2022-October 2023*
 - **Description:** Defined requirements and developed solutions for Japanese and ANZ customers, leveraging Edgio's infrastructure and networking capabilities (CDN, WAF). Focused on improving application delivery speed and performance. Troubleshooted customer issues related to CDN, WAF, and website optimization. Implemented caching and delivery configurations to enhance file delivery performance and reduce latency. Implemented Edgio's cybersecurity solutions and WAF to improve customer security measures.

Osaka Prefecture University

Osaka, Japan

- *Research Assistant; Japanese* *Sep. 2021 – Dec. 2021*
 - **Description:** Implemented new multiobjective optimization problem formulations into existing algorithms. Analyzed and presented experiment results using Python notebooks. Refactored existing Java codebase and created documentation to facilitate its use.

PROJECTS

- **MoFGBML Visualizer:** Developed a visualizer using React and Node.js to expedite the analysis of research data from multiobjective fuzzy genetics-based machine learning (MoFGBML). This tool allowed for quick display and interpretation of experimental results, aiding in data-driven decision-making.
https://github.com/SamirFersobe/mofgbml_visualizer
- **Tutoring Application:** Collaborated within a team of 5 to develop an online tutor reservation application. Led the frontend design using Bootstrap, CSS, and JavaScript. The backend was built with Python on Django.
<https://github.com/Pujolsluis/quickttutors>

EDUCATION

Osaka Prefecture University

Osaka, Japan

- *B.E. Computer Science; Japanese* *Graduated March 2022*
 - **Description:** Completed coursework in signal processing, information theory, computer architecture, abstract algebra, and statistical mechanics. Conducted research on computational intelligence in fuzzy classifiers and evolutionary multiobjective optimization algorithms.
 - **Technologies:** Python (pandas, numpy, matplotlib), Verilog (FPGA Programming), Java