Pape Magatte Ndiaye DIENE

SOFTWARE DEVELOPER
FINAL-YEAR ENGINEERING TECHNOLOGY STUDENT
IN COMPUTER SCIENCE

CONTACT

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HLM Grand Yoff, Dakar

TECH SKILLS

- Languages & Frameworks: PHP (Laravel), JavaScript (AngularJS, React), Java, HTML, CSS
- Databases: MySQL, PostgreSQL
- Tools & Platforms: Git/GitHub, Postman, UML Modeling, System Administration
- Other: Machine Learning, AI Integration, Web Application Design & Maintenance

SOFT SKILLS

- Problem Solving & Analytical Thinking
- Teamwork & Collaboration
- Adaptability & Curiosity
- Time Management
- Communication

LANGUES

- French: Native
- English: Professional Working Proficiency

PROFILE

FINAL-YEAR ENGINEERING TECHNOLOGY STUDENT IN COMPUTER SCIENCE (BAC+4), PASSIONATE ABOUT SOFTWARE DEVELOPMENT AND INNOVATIVE TECHNOLOGIES, WITH A PARTICULAR INTEREST IN ARTIFICIAL INTELLIGENCE. STRONG ANALYTICAL AND PROBLEM-SOLVING SKILLS, COMBINING ACADEMIC RIGOR WITH PRACTICAL EXPERIENCE IN PROJECT MANAGEMENT AND APPLICATION DEVELOPMENT. RANKED FIRST IN MY CLASS IN THE FIRST YEAR OF MY PROGRAM, MOTIVATED TO TACKLE TECHNICAL CHALLENGES AND CONTRIBUTE EFFECTIVELY TO PROJECT SUCCESS.

EDUCATION

Engineering Technology Degree in Computer Science   2024 - 2026
École Supérieure Polytechnique (ESP), Dakar

Higher National Diploma (HND) in Computer Science   2022 - 2024
École Supérieure Polytechnique (ESP), Dakar

Scientific Baccalaureate (S2)   2021 - 2022
Lycée Sergent Malamine Camara

WORK EXPERIENCE

Fullstack Developer – Backend Focus

HTSOFT SENEGAL
November 2024 - Present

- Contributed to the modeling, development, and maintenance of web applications using Laravel and JavaScript (AngularJS / React).
- Designed and implemented functional modules, integrated AI-based solutions, and managed and optimized databases.
- Collaborated with cross-functional teams to deliver high-quality software solutions.

Web Development Intern

HTSOFT SENEGAL
May 2024 -November 2024

- Developed an online seminar management platform as part of the final-year project for the Higher National Diploma in Computer Science.
- Participated in full-stack development, testing, and deployment of web applications.

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PROJECTS

SIRH (HR Information System)

- Contributed to the development of multiple back-end and front-end modules of the HR application.
- Integrated an AI module for CV pre-selection to streamline recruitment processes.
- Developed backend APIs using Laravel and configured the Nginx server for deployment.
- Provided user setup and training, ensuring smooth adoption of the system by HR staff.
- Actively participated in testing, debugging, and maintaining the application to guarantee stability and performance.

Technologies: *React, Laravel, Postman, PostgreSQ, OpenAI API*

GESTIMMO (Real Estate ERP)

- Developed multiple modules, including rent management and financial reporting.
- Implemented PDF generation and testing for receipts and financial statements.
- Developed data import jobs, drafted test reports, and planned system improvements.
- Trained users (cashiers, accountants), performed sensitive data migration, and wrote meeting notes for project tracking.

Technologies: *Laravel, AngularJS, Blade, PostgreSQL, Postman*

N-BaIoT – Network Intrusion Classification (Machine Learning)

- Academic project focused on detecting botnet-related IoT network intrusions from traffic data.
- Tested and optimized multiple supervised machine learning algorithms: Random Forest, SVM, and KNN.
- Optimized the Random Forest model using GridSearchCV, achieving near-perfect accuracy for detecting attacks such as Mirai and Bashlite.
- Developed a web-based user interface using Flask and deployed the system online.
- Project strengthened skills in data analysis, machine learning, and practical AI integration.

Technologies: *python (Flask)*

TamTam FinConnect

- Major front-end project: fully developed responsive landing page and user dashboards for project holders and investors.
- Enhanced UI/UX design, improved user interaction modules, and managed lists of opportunities.
- Contributed to front-end development and system design for a complete web application.

Technologies: *HTML, CSS / Tailwind, PHP (Laravel)*   **Link:** *https://tamtamfinconnect.com*