SAMER BISHARA
Technical Writer

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SKILLS

Tools: Django, React, RESTful APIs, PostgreSQL, Git, AWS, SQL, NoSQL, NumPy, pandas, React Native, Ionic, LaTeX, Playwright, Test Automation, CI practices, OAuth

Languages: Python, TypeScript, JavaScript, HTML/CSS, Java, C/C++, Rust, Bash, Solidity, Unity

EXPERIENCE

FullStack Developer at Flaming Stove | Aug. 2024 – Present
- Authored clear internal guides on usage and data entry to ensure smooth adoption across the team.
- Built a **Django-based** internal web application from the ground up for manual inventory tracking
- Designed and implemented full-stack architecture using **Django** and **PostgreSQL** with tests and validations
- Automated daily logging of ingredient usage and sales, with waste calculations and restock alerts
- Created reports visualizing sales peaks, waste patterns, and margin trends to guide decision-making

FullStack Developer at Champag | Feb. 2024 – Aug. 2024
- Wrote API and user documentation and onboarding guides to support developers and data scientists integrating with the platform.
- Led a cross-functional team to design and deploy a full-stack web application for AI-driven mushroom yield forecasting, using **Django** for the backend, **Next.js** for the frontend, and **PostgreSQL** for the database with unit testing.
- Enabled AI model integration for yield prediction, leading to data-driven farm management decisions
- Developed scalable ETL pipelines to process sensor and operational data, supporting real-time analytics
- Integrated Keycloak for secure role-based access control. Containerized the application with Docker and managed deployment on DigitalOcean, ensuring portability and reliability

PERSONAL PROJECTS

AWS Serverless Web Scrapper | *Python*
- Built serverless web scraping platform using **AWS Lambda, S3, DynamoDB, and CloudWatch**
- Implemented Infrastructure as Code using **AWS CDK (Python)** for automated deployment

Neural Network Development | *PyTorch, PyTorch Lightning, Python, Pandas, Git, Matplotlib*
- Built and trained regression and classification models using **PyTorch** and **PyTorch Lightning**
- Preprocessed real-world datasets, visualized training metrics, and evaluated model performance
- Applied GPU-accelerated training and followed scalable ML development practices

AI Textbook Generator | *Python*
- Designed a system to convert raw documents and articles into structured, textbook-style educational content. Used LangChain and GPT models to generate summary explanations from unstructured text
- Integrated the Notion API to automatically embed generated content into Notion pages.

ETHToronto2022 Hackathon | *Solidity, React, Javascript, HTML & CSS*
- Top 10 finalist and AlturaNFT bounty winner. Led the development of an app with dynamically changing NFT Pets that are earned, grow and evolve by consistently logging habits on chain.

EDUCATION

McGill University
Bachelor of Arts in Computer Science & Mathematics/Statistics