




# Samer Bishara

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## SKILLS

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**Tools:** Django, React, RESTful APIs, PostgreSQL, Git, AWS, SQL, NoSQL, NumPy, pandas, React Native, Ionic,  $\text{\LaTeX}$ , Playwright, Test Automation, CI practices, OAuth

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

## EXPERIENCE

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**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

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**AWS Serverless Web Scraper** | *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

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**McGill University**

*Bachelor of Arts in Computer Science & Mathematics/Statistics*