Moussa Haidous

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EDUCATION

Lebanese American University | Bachelor of Science in **Computer Science**   May '22
- Cum. GPA: 3.98/4.0 – Distinguished List

EXPERIENCE

Part-time Software Engineer   Sept. '21 – Present
Murex – Build Systems
- Develop a custom **Nexus Repository Manager 3** (NXRM3) **recipe** to enable the **upgrade** of all internal repositories
- Build & deploy internal **gRPC services** to **aggregate data** on **production build processes**
- Design **gRPC** services to **monitor** & **enforce quality gates** on build processes such as **build time & size.**
- Create a **Spring API Gateway** to permit **RESTful** communication with **gRPC** services.

Software Engineering Intern   Jun. '21 – Aug. '21
Murex – Build Systems
- Optimized the **speed performance** of a frequently used internal tool by **15x.**
- Built **8+ Jenkins pipelines** to accelerate development and deployment of the internal tool.
- Implemented **additional features** for the tool that improve the quality of life of development teams across Murex.
- Managed the **incremental deployment** of the new tool version across the Murex production codebase.
- Developed a **RESTful service** that provides an API for the tool which facilitates its usage by Murex engineers.
- Designed & deployed an **Angular user interface** that consumes the API to present the tool's output beautifully, in addition **to aggregating various data & indicators** generated by the tool.

WordPress Developer   Mar. '20 – Jun. '21
Freelance - **400+ hours**
- Built and designed **80+** e-commerce sites using **WooCommerce**, **Dokan**, **WCFM**.
- Developed more than **30 custom** WordPress plugins to interface with multiple 3rd party APIs and integrate with WooCommerce.
- Integrated **React Native** and **Flutter Apps** with WooCommerce and Dokan.
- Modified existing WordPress plugins for **unique functionality** to cater to the clients' needs.
- Communicated with clients on a daily basis to **translate business requirements into technical features**.

FEATURED PROJECTS

Fine | Live Demo - GitHub
A Keras-like **deep learning library** that provides an artificial neural network **Python** interface built from **scratch**.
Built purely using **Python** and **NumPy**. **Fine** allows you to build, train, and deploy neural networks of all kinds thanks to the **implemented-from-scratch dense layers, max pooling layers**, **convolutional layers**, and more. Additionally, **Fine** provides multiple activation layers, loss functions, and **state-of-the-art optimizers** such as **Adam**.

UNIX Shell | Live Demo - GitHub
Built from scratch using **C,** this project is a fully-fledged UNIX shell with support for all default shell commands, **infinite piping**, and **command chaining.** Additionally, it provides an interface for a couple of custom shell commands such as changing directory & retrieving command history.

SKILLS

- Languages:
  Java, C++, C, Rust, Python, JavaScript, TypeScript, SQL
- Technologies:
  NodeJS, Spring Boot, Flask, MongoDB, PostgreSQL, React, Angular, Git, PyTorch, TensorFlow, Keras, Jenkins, Docker