EL WHITTLE
Software Engineer

WORK EXPERIENCE

Founding Engineer at Insightflo | Brooklyn, NY

October 2023 — August 2024

- Spearheaded a backend server, automating customer interview analysis for 10+ enterprise clients, reducing review time by 60%.
- Engineered a comprehensive ML pipeline for transcription and LLM analysis to achieve 85%+ accuracy in interview response data. Coordinated with a cross-functional team to iterate product features and align with business goals.
- Optimized processing efficiency by parallelizing transcription, analysis, and JSON conversion stages using RabbitMQ, which led to a 40% reduction in overall processing time and enabling near real-time feedback for customers.

Computer Science Tutor at NYU Tandon | Brooklyn, NY

November 2021 — December 2023

- Tutored 50+ students in core computer science topics such as data structures, algorithms, and object-oriented programming, resulting in a 95% satisfaction rate.
- Created comprehensive educational content, including mock exam review videos and real-world coding examples, facilitating a 15% average improvement in student exam scores.
- Delivered one-on-one mentoring sessions, focusing on complex topics such as runtime complexity, binary search trees, and memory management, contributing to a 10%+ increase in student test scores through individualized guidance.

Software Engineer at NYU Tandon | Brooklyn, NY

June 2022 — August 2022

- Rapid-prototyped a cross-disciplinary virtual materials science lab, developing 5 core simulation features and integrating components from 3 different engineering domains into a functional prototype.
- Demonstrated functional model capabilities to 10 academic stakeholders, emphasizing how educational metaverse technologies could enhance STEM learning outcomes and foster innovative interdisciplinary projects across engineering disciplines.

EDUCATION

NYU Tandon School of Engineering | Brooklyn, NY

September 2020 — May 2024

- Major: Computer Science, Minor: Mathematics
- Relevant Courses: Software Engineering, Parallel & Distributed Systems, Intro to Databases, Intro to Machine Learning, Compilers, Design and Implementation of Programming Languages, Open Source and Professional Software Development, Game programming, Operating Systems, UNIX System Programming.

RELEVANT PROJECTS

- **News Bias Analyzer (Fullstack Web App)** – *B.S. Capstone Project*: Created a RESTful full stack application using LLMs to analyze users' saved articles.
- **EEG Preprocessor (CLI Tool)** – *School Project*: Built a CLI tool for EEG data cleaning, utilizing generative models to improve output data accuracy by 2.83%. Enabled saving and visualization of results through Matplotlib.
- **Yoda: Conversation Co-Pilot (Fullstack Web App)** - *LLamaHaCK at Cornell Tech*: Created a live conversation-analysis-and-response tool.
- **COOL Compiler (CLI Tool)** - *School Project*
- **Robot arm controller (JuPyter Notebook)** - *School Project*
- **Common Actors Calculator (Script)** - *School Project*

CONTACT

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SKILLS

OOP

Algorithms

Machine Learning

Parallel & Distributed Programming

Agile

Python

C

C#

C++

SQL

Java

JavaScript

PyTorch

Flask

Pandas

MatPlotLib

Git

Visual Studio

Make

Docker

AWS

RabbitMQ

Jira

Amazon S3

MongoDB

PostgreSQL