v6.4.2

Arindam Sharma

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CSE2022 Grad@IIITDMK | Sr.ASE@LnW | Ex-SDEIntern @KLA

Experience

Light And Wonder, *Sr.Associate Software Engineer* | Associate Software Engineer *Nov 2022 - Present*

- Contributed to workflow optimization and subsequent development in **C++**.
- Developed interactive game page using **Vanilla JavaScript**, Designed to transition between Games (lightweight **Bonus Screen**).
- Developed **C# Dot.NET framework** Application from ground up, implementing components like **Message Queuing** ,**Multi-Threaded Socket Comms**,**DataBase Handlers** with ability to handle **simultaneous message** from multiple applications.
- Developed **Python-based internal tool** with **Custom GUI**, aiming to reduce processing time and errors during analysis.
- Configured **DHCP service** to enable self-configuration upon boot-up, thereby enhancing network efficiency and reliability.
- Major Tech Stack includes : **C++**/**C#**/**Python**/**Javascript**/**ShellScript**/**Env(Linux)**.

KLA Tencor, *Software Engineer Intern* | Remote | Certificate *May 2022 - Aug 2022*

- Developed a **Python-based Difference Report Generator** ,uses **system configuration files** and **RTC client**, allowing quick and easy tracking of configuration changes and associated with respective users.
- Developed a **Calibration checker** using **C#** and **Windows Registry**, ensuring the safety and reliability of system boot up and its delicate Components.

IIITDM Kancheepuram, *Teaching Assistance(HTTA)* *Oct 2021 - Mar 2022*

- Providing Concepts Insight, Back and Forth Discussion ,resulting an Improved Learning Experiences.
- Assisted professors with lectures, labs, and tutorials.

Vassar Labs, *Software Engineer Intern* | Hyderabad | Certificate *May 2021 - Nov 2021*

- Developed and maintained API modules using **Java Spring Boot** to enhance system functionality.
- Optimized data extraction algorithms, significantly improving performance and efficiency in loading large datasets.
- Major Tech Stacks includes: **Java**, **Maven**, **REST API**, **Spring Boot**, **Cassandra**, **MySQL**.

Education

8.01/10 **Dual Degree (BTech+MTech) in Computer Science and Engineering**, *Indian Institute of Information Technology Design and Manufacturing Kancheepuram* | Chennai, India

Achievements: 1st Place Chakravyuha (Robotic competition), Samgatha 2018 (College Fest).
Responsiblities: Robotics Club Coordinator | Placement Cell WebDev TeamLead | Placement Coordinator
Courses: | Advance DSA | HPC| HCI | IGC | DL | System of BigData | Computer Networks | Perception | Design Optimization | ML | DBMS

Skills

Programming	Python, C/C++, C#, Java, Javascript, Shell Scripting (Bash),DotNet
WebDev	HTML, CSS, Javascript, Flask, Django, Angular,Express Js, NodeJs,React.
Hardware	Arduino and Modules, Node-MCU, Raspberry-Pi, Bolt-Iot
Software	Env(Linux), Git, DBMS's (MySQL, SQLite, Cassandra, MongoDB, MariaDB)
Certifications	NPTEL Social Network | NPTEL Programming with Java | NPTEL Python

Projects

Evolution Simulator *Mar 2022 - April 2022*

Simulator, Final Year Project

- Simulated **Evolution** using **Natural Selection** and a custom **Neural Network** mimicking a living brain.
- Modeled **Neural Network as Graphs** enabling **dynamic neurons** without affecting existing weights.
- Built a **2D environment** to visualize individual behavior, decisions, survival, and death.
- Applied **Genetic Algorithms** with Genomes to simulate realistic **replication, mutation, inheritance**.
- Incorporated **OOP** for modular design and evolution features like **survival of the fittest**.

Ref: *github.com/ArindamSharma/evolution-using-selection*

Neural Network from Scratch *July 2020 - Dec 2020*

IIITDM Kancheepuram

- **Built** and **Trained** a simple feedforward **Neural Network** from the ground up using only **NumPy**, without relying on high-level ML libraries. Implemented **Feed Forward** , **Back Propagation**, and gradient descent manually. Gained a strong foundational understanding of how neural networks learn, adjust weights, and make predictions.
- Used the MNIST dataset for handwritten **Digit Classification** to test and validate the model.
- Skills: C/C++, Python.

Ref: *https://github.com/ArindamSharma/neural-network-1*, *https://github.com/ArindamSharma/neural-network-0*

OpenGL Test Framework *July 2020 - Dec 2020*

IIITDM Kancheepuram

- Developed a lightweight graphics renderer in **C/C++** using **OpenGL**, capable of rendering fonts, images, and shapes with programmable shaders and buffer management.

Ref: *github.com/ArindamSharma/openGl-project-0*