Kinshuk Phalke

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EDUCATION

Georgia Institute of Technology Atlanta, GA | Aug 2021-Dec 2024
BACHELORS OF SCIENCE IN COMPUTER SCIENCE **GPA:** 4.0
Coursework: Data Structure and Algorithms, Honors Discrete Math, Honors Linear Algebra, Computer Organization and Programming, Probability and Statistics, Applied Combinatorics
Clubs: GreyHat (CyberSec Club), dependently-typed (Programming Language Club)

WORK EXPERIENCE

NOTITIA | SOFTWARE ENGINEER Atlanta, GA | Nov, 2021 -

- Working with **Full-Stack** and **NLP** in building a MVP for a startup at Georgia Tech.
- Built a **LDA model** in Python and worked with tuning **UMAP** parameters and implemented a clustering algorithm using **FAISS**. Worked on UI of a WordCloud using **React Flow**.
- Optimized the Frontend, Backend and Flask server, cutting time in Frontend by **60%** and **40%** in MongoDB and Backend.

NATIONAL UNIVERSITY OF SINGAPORE | STUDENT RESEARCHER Singapore | Apr 2019-Dec 2019

- Created a **Machine Learning** app to accurately estimate calories required by a person at a certain time to control food waste.
- Researched and devised relations between **Ghrelin**, the hunger hormone, and calories required by accounting for factors like BMI, Diet Regime and Food Schedule. Used this data and relationship to train the machine learning model.
- Followed **Design Thinking** principles in ideation and in designing the core principles of the idea. Worked intensively on User Experience and on Logo Design by creating prototypes on Adobe XD and photoshop.
- In the Final Competition, presented the app to the judges in Singapore and won the **Best Presentation Award.**

PROJECTS

PUBLIXMON ⬈ MongoDB, Express.JS, React Native, Node.JS, Flask | Oct 2021 - Nov 2021

- Using a deep neural network, OpenCV, React Native, Flask, Node, and Solidity (to create NFT smart contracts), Publixmon creates an **engaging social experience** for retail shoppers.
- Users' purchase history is turned into **unique collectibles** that can be traded with other users to earn savings and turn local stores into communities.
- Project Won the **1st Place** at the **NCR API Challenge** at HackGT 8.

DEUSCL ⬈ Rust, Common Lisp | Jan 2022 -

- Built a Memory-Efficient, Memory-Safe and Fast REPL that implements **Common Lisp** and is using Rust.
- Implemented **Non-deterministic Finite Automata** for Parsing and built an **Abstract Syntax Tree** to represent code and expressions.
- Worked on implementing a **Type-Checker**.

TWITAKE ⬈ MongoDB, Express.js, ReactJS, Node.js, Python, NLP, TwitterAPI | Aug 2021 - Sept 2021

- Built a **full-stack** fake disaster tweet analysis tool that uses **TwitterAPI** to extract the text from a linked tweet.
- Using data processing tools like lemmatization, tokenization, N-Grams, Stop Words, removal of punctuation, and a **TD-IDF based Logistic Regression**, built a NLP model with a **81% accuracy**.

MENTAL HEALTH CHAT ⬈ Redis, Docker, MongoDB, Express.JS, ReactJS, Node.JS, Socket.IO | Sept 2021 - Oct 2021

- Built a timed chat for people to talk about issues their **mental health issues** and help them overcome it.
- Built a **Redis Database** so that the message is set to expire in about **6 hours** in order to encourage people to come out and discourage users calling each other out.
- Created a **Dockerized App** with a **Redis Instance** during development.

SKILLS

Languages: Python, JavaScript, HTML/CSS, Java, C, C++, C#, Bash, Rust, AWK, Solidity
Web & App Development: ReactJS, Express.js, Node.js, Bootstrap, Bulma, Flutter, Ionic Framework, React Native, Socket.IO, Redux, ReactFlow, Web3.js
Machine Learning: NumPy, Scikit-learn, Open AI Gym, Matplotlib, Pandas, Keras, NLTK, Gensim, FAISS, UMAP
Technologies: Git, MATLAB, Docker, Postman, LaTeX, SQL, MongoDB, Redis, Kubernetes, Blockchain