AKSHAT WAGADRE

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EDUCATION

University of Illinois at Chicago	**Expected May 2023**
M.S. — Computer Science	**(CGPA - 3.7/4.0)**
Vellore Institute of Technology, Chennai, India	**July 2016 - May 2020**
B.Tech. — Computer Science	**(CGPA - 3.3/4.0)**

SKILLS

Python, Javascript, Java, Scala, C, C++, TypeScript, Web Development Frameworks, Node.JS, React, React Native, Redux, Jest, Handlebars, PWA, HTML, CSS, Bootstrap, Responsive Design, System Design, APIs, Redis, MongoDB, Firebase, MySQL, Git, Docker, gRPC, AWS, Hadoop, Kafka, TensorFlow, sk-learn, NLTK, SciPy, NumPy, Pandas, Matplotlib, Seaborn, OpenCV

WORK / RESEARCH EXPERIENCE

Full Stack Development Intern | HGS Digital, Chicago, IL   **May 2022 - Aug 2022**

- Worked on development of the NewYork Presbyterian (NYP) **Healthcare** website and fixed **accessibility** issues to make it conformant with the **WCAG** level AAA standard where I was involved in the test plan preparation and execution.
- The fixes were successfully deployed to **production**, resulting in improved user experience and performance.
- Designed an app download banner for iOS and Android platforms using **PWA services** for Banfield Pet Hospital website.
- Fixed hard coded credentials for NYP global search bar using **environment variables** in **ReactJS**.
- Involved in defect logging, weekly status reporting.
- Coordinated with the content management team for meeting customer service satisfaction.
- Created comprehensive and user-friendly documentation for the project, resulting in improved understanding and implementation by team members.

Image Processing Research Assistant | VIT University, Chennai, India   **Oct 2019 - Dec 2019**

- Worked as an RA on classification of diabetic retinopathy using CNN models and OpenCV for preprocessing of dataset and feature extraction. It involved implementing methods for efficient modeling.

PROJECTS

Full Stack Projects (React Website)

- Cryptobase: Built a crypto news / charting responsive website with **ReactJS** (using **Material UI**) for front-end and **Node.JS** for back-end with **PassportJS** for authentication, testing with **Jest**, **CI/CD** using github actions**.**
- Built multiple web projects using web technologies like Node.JS, ReactJS, Firebase, MongoDB, coding in JavaScript.
- Websites include clones of Amazon (including payment gateway with stripe), Spotify, Netflix, WhatsApp and a few personal projects. **React Native** (expo) clone apps built are Uber app clone, Signal app clone.

Cloud Computing and Distributed Objects

- Implemented **Hadoop** map reduce using **AWS EMR** which performed operations on a large log file. (Link)
- Developed **gRPC** implementations in both **Python** and **Scala**, and integrated with an **AWS Lambda** function through an API Gateway. (Link)
- Conducted cloud simulations using **CloudSimPlus** in **Scala** and containerized using **Docker**. (Link)
- Uploaded all projects to **GitHub** with detailed and **well-organized documentation**.
- Created and uploaded instructional videos to explain the implementations. (Links present on GitHub)

Human Activity Recognition for Surveilliance Using LSTM/BiLSTM

- Built a Python application that **classified** human activities on a **live video feed**. It used an **LSTM** based model built using tensorflow that was trained over **CNN** extracted features on clips of suspicious activities.
- It gave an accuracy of 81% on a customized dataset.
- Got a journal paper published in **IJAST** for the mentioned project.

AWARDS AND EXTRA-CURRICULARS

- Awarded an yearly scholarship of ₹50k for securing under 10k rank in VIT entrance exam (May 2016).
- Lead a team of 4 and got 3rd place in a hackathon organized by Facebook Developer Circles, Chennai among 40+ teams (September 2018).
- Won 1st prize in a college organized "Counter Strike: Global Offensive" Game event (October 2017).