VAIBHAV PUNDIR

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EDUCATION

Master of Computer Science, Texas A&M University — Expected May 2025
Relevant Coursework: Information Storage & Retrieval, Parallel Computing, Distributed Systems, and Data Analytics.
Bachelor of Computer Science, PES University — 2016 - 2020

SKILLS

Technical Skills	Python, Java, Swift, C++, C, Bash, PHP, PyTorch, Tensorflow, Node JS, React JS, Next JS, SQL, MongoDB, Docker, Kubernetes, Ansible, Apache Hadoop, Git, WordPress, Jenkins
Soft Skills	Problem-solving, Attention to detail, Teamwork, Adaptability

EXPERIENCE

Student Web Developer — Sep 2024 - Present
Texas A&M College of Veterinary Medicine & Biomedical Sciences — *College Station, TX*

- Helping maintain various multi-sited websites using **WordPress** Content Management System.
- Using tools like **SiteImprove** and **Google Analytics** to monitor & fix Usability, Accessibility, QA, and SEO issues.

Machine Learning Engineer — May 2024 - Aug 2024
BrainBit AI — *College Station, TX*

- Designed novel generative diffusion models using **PyTorch** for synthesizing realistic drum sounds from text prompts.
- Developed and optimized **search algorithms** to improve the retrieval of relevant drum sound samples from the dataset, enhancing the accuracy and speed of sound matching based on user input.
- Built a comprehensive **300K+** sample text-audio dataset for drum sounds using **Gemini** and **TogetherAI**.

Member of Technical Staff - II — Jan 2020 - Jul 2023
VMware Software India — *Bengaluru, INDIA*

- Led full-stack web development projects using **React**, **Node.js**, and **Python**, deploying via **Docker** and **Kubernetes**, improving user engagement by **40%** and supporting high-traffic search queries.
- Engineered a comprehensive unit test framework in **Python**, reducing testing cycle time by **60%**, significantly enhancing developer efficiency across multiple teams.
- Developed and automated a robust **CI/CD** pipeline using **Jenkins**, **Docker**, and **GitLab**, reducing deployment time by **30%** and enhancing release frequency in an **agile** environment.
- Maintained and expanded automated unit test frameworks, contributing to **25%** reduced testing time and ensuring robust **QA** for production-ready deployments.
- Leveraged **deep learning** and **natural language processing** (NLP) to analyze **Bugzilla** data & exception's traceback, automating the bug assignment process with an accuracy of **96%**.

PROJECTS

Outfit Recommendation System

- Implemented a VBPR model trained on the Deep Fashion dataset of over **800K+** diverse fashion images to build a highly personalized outfit **recommendation system**.
- Designed and developed an intuitive, responsive user interface in **Next.js** to deliver tailored outfit suggestions, seamlessly integrating real-time weather data for enhanced user experience.

Tiny Social Network Service

- Built a highly available, scalable, and fault-tolerant social network service using **Google RPC** in **C++**.
- Orchestrated **coordination** and **synchronization** across multiple clusters and servers.

A Web Application 'SelfieLessActs' on AWS EC2 Cloud Platform

- Developed a container orchestration system on **AWS EC2** (IaaS), ensuring fault tolerance, load balancing, and autoscaling.
- Supported **microservices** for the web application, enhancing its reliability and scalability.

EXTRA-CURRICULAR ACTIVITIES

- Active member of the Honor Council at the Aggie Honor System Office.

LEADERSHIP

- Led a team of 6 members to achieve **1st Runner-up** in Smart India Hackathon 2019 (Software Edition), outperforming 30+ competing teams nationwide.