Shivanee Jaiswal

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EDUCATION

M.S. in Computer Science, Georgia Institute of Technology | GPA 3.8   Aug 2022 - May 2024
Courses: Algorithms, Machine Learning, Deep Learning, Data & Visual Analytics, Computer Vision, Information Security

B.Tech in Computer Engineering, University of Mumbai | GPA 3.7   Aug 2016 - Oct 2020
Courses: Data Structures, Object Oriented Programming, DBMS, Software Engineering, Distributed & Cloud Computing

SKILLS

Programming: Java, Python, C, C++, JavaScript, TypeScript, SQL, Swift, PHP, C#, HTML, CSS
Development: Angular, Node.js, Express.js, Spring, Spring Boot, REST, AJAX, Hibernate, Flask, SwiftUI, iOS, Android
Tools and Platforms: Git, Jenkins, Docker, Spark, Selenium, Figma, MongoDB, GCP, AWS, Unix
Machine Learning: Keras, Tensorflow, PyTorch, OpenCV, NumPy, Pandas, Scikit-Learn, HuggingFace, LangChain

WORK EXPERIENCE

Software Engineer Intern | Juniper Networks   May 2023 - Aug 2023
- Upgraded Node.js and MongoDB-based vulnerability tracking tool, resulting in publishing **17 security advisories** for Q2 2023, and automated its deployment on AWS EC2 using Shell Scripting
- Fine-tuned LLMs (Flan-T5, MBART 50, Llama2) using Python and HuggingFace to summarize search engine results with a **52%** ROUGE score
- Achieved a **98% reduction** in used computational resources by implementing Performance Efficient Fine Tuning
- Leveraged Python and LangChain to build a Question Answering system for a dataset of **30,000+** technical articles

Computer Vision Intern | Trisetra   Apr 2022 - Jun 2022
- Trained an SSD model with **88.6% accuracy** using Python and Tensorflow to detect window blinds in images
- Implemented dominant color recognition in images using unsupervised learning in Python to generate 3D assets
- Compiled a database of ~**1000** furnishing products by scraping websites with Python and BeautifulSoup

Software Engineer | Wissen Technology   Jul 2020 - Jan 2022
- Built robust Spring and Spring Boot microservices to dynamically generate financial reports by efficiently querying over **21 million records** from diverse data sources
- Enhanced database performance by optimizing SQL queries, resulting in a **67% reduction** in query execution time
- Developed an Angular UI framework to render finance reports and dashboards from JavaScript configurations
- Automated extraction of ~**28 million rows** from Teradata and converted it into Tableau Extract using Python
- Increased unit and end-to-end test coverage by **43%** using JUnit, Cucumber, Selenium, Jasmine, and Karma
- Configured CI/CD pipelines using Jenkins and Docker for 4 products, reducing the deployment time by **50%**

PROJECTS

Prompt-based Journaling App | SwiftUI, Flask, LangChain, Heroku, Firebase [GitHub]
- Architected and developed an iOS journaling app and REST API in under 36 hours, with daily prompts and interactive stickers to foster social connections
- Incorporated LLM-generated daily prompts based on previous entries using Flask, LangChain, and GPT 3.5

SageVR: A Novel Approach to Conventional Therapy | Unity3D, C#, Meta VoiceSDK, GPT [GitHub]
- Led and developed a VR app using Unity and C# to support therapeutic conversation with the user's older self
- Integrated GPT for generating dialogue and leveraged prompt engineering to simulate the older self's responses
- Used VoiceSDK and Wit.AI to implement text-to-speech and speech-to-text conversion, with < 5s response time

ACTIVITIES

- Won the 'Best use of Omniverse' track at ImmerseGT for SageVR out of **58 teams** and **550+ participants**
- Freelance Technical Writer with **65,000+ blog views** [Medium] [KnowledgeHut]
- Coached **127** Government School Teachers in Python to introduce it in the official school curriculum
- **Volunteer** at NavGurukul, taught Python to **25+** female students, curated content used by **20,000+ users**