

SHIVANGI VERMA

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EDUCATION

Indian Institute of Information Technology, Allahabad

Bachelor of Technology in Information Technology

July 2019 - May 2023

Allahabad, Uttar Pradesh

TECHNICAL SKILLS

Languages: C++/C (Data Structures and Algorithms), Python, Java, JavaScript, SQL

Technologies: React, TypeScript, Flutter, Electron, Three.js, Angular, Tkinter(Python GUI), PowerBI, Node.js, Python Selenium, Flask*, MySQL, Machine Learning, AI, Firebase, Linux, Shell Scripting, Jenkins, BitBucket, GitHub, API, Git, Blockchain, Unity Engine

EXPERIENCE

KATALYST BUSINESS SOLUTIONS

Oct 2023 - Present

Software Engineer

Mumbai, Maharashtra

- Developed an advanced chatbot utilizing vector embeddings providing context-aware responses powered by Azure ChatGPT-4o from the users QuickBooks Account. Developed a dynamic dashboard with real-time data and automated reminders for payments and invoices, enhancing user experience, financial management, and compliance.
Tech Stack: React, TypeScript, FastAPI Azure OpenAI, PostgreSQL, PowerBI [Deploy](#)
- Engineered a comprehensive account backup and restore solution, enabling real-time change tracking and facilitating precise restoration of entities to specific dates and times. **Tech Stack:** React, FastAPI, Azure Functions, Kafka, PostgreSQL [Deploy](#)
- Developed and integrated OAuth2 authentication with Intuit, ensuring secure sign-in and seamless data retrieval across multiple projects via API integration with Intuit products. **Tech Stack:** FastAPI, Intuit-OAuth2.0, PostgreSQL, Azure Functions
- Designed and implemented a fully automated CI/CD pipelines for different projects, reducing deployment time by 50% and increasing deployment frequency by 75%. **Tech Stack:** Azure DevOps, Azure Services, Git, GitHub Actions
- Designed and developed Electron applications, including a QuickBooks Online app with enhanced features like automated report backups, and a file-sharing/viewing app utilizing GitHub repositories, both prepared for RD Webclient.
Tech Stack: Flask, Electron, Intuit-OAuth2.0, SQLite [Deploy](#)
- Engineered an AI-powered chatbot platform for transcribing client audio, video, and text files, enabling the support team to query and retrieve specific historical call and chat data. This solution reduced issue resolution time by 40% and enhanced operational efficiency by 30%, streamlining access to critical client interactions and driving faster, data-driven decision-making.
Tech Stack: React, Flask, Azure OpenAI, Azure Web, Redis, CosmosDB (MongoDB) [Deploy](#)
- Created OneLink website to transfer credentials, files over secured network. **Tech Stack:** Django, ReactJS
- Network Speed Testing apps for MacOS, Windows using Python Tkinter. Also created a website for displaying the database of network test results. **Tech Stack:** NodeJS, HTML/CSS, Tkinter(Python Tk)
- Integration of OpenSource SaltProject for automation, infrastructure management of Operating Systems from GUI reducing the cost of managing client servers. **Tech Stack:** SaltProject, NodeJS, JavaScript, HTML/CSS, Powershell, Bash, Linux, Windows

BEAT THE VIRUS STARTUP

May 2021 - July 2021

SDE Intern

Remote, Lucknow

- Front End Development for BTV Startup Website using ReactJS and JavaScript.

HAL

June 2021 - July 2021

Vocational Training

Lucknow, Uttar Pradesh

- Accessories division, Hindustan Aeronautics Limited, Lucknow.

PROJECTS

BLOCKCHAIN, IoT DEVICES & PUF | [GitHub](#), [BitBucket](#)

January 2023

- Reduced the amount of ether used in Smart Contract deployment by 20% and the cost of device registration by 45% and enhanced the security of IoT devices by automating the registration and authentication process on the blockchain.
- Tech Stack:** Blockchain (Solidity), Ganache, IoT, IPFS, Flask, JavaScript, HTML/CSS

MESSAGE APP | [GitHub](#)

December 2023

- Developed public msg app for ios and android. User can register through email and type at the wall.
- Tech Stack:** Flutter, Firebase

FAKE NEWS DETECTION | [GitHub](#)

Jan 2022 - May 2022

- The Project is about Fake News Source Detection, to Develop a fake news Classifier using Long Short Term Memory (LSTM).
- Tech Stack:** LSTM (Python)

AR FOR REAL ESTATE |

May 2021

- This Project is to gain real-world experience of a property while sitting in his or her own room.
- Customers can view the product in detail on their mobile phones with the help of blueprint.