

KUMAR SHIVAM

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TECHNICAL SKILLSET

Coding: Python, Node.js, Express.js, C/C++, MongoDB, PySpark, Hadoop, SparkML, Flask, FastAPI, JSON

Analytics: MySQL, ETL/ELT, Power BI, Tableau, Azure GPT, Cosmos DB, Blob Storage, PostgreSQL, Neo4j, Data Analysis

DevOps: GIT, Github Actions, Jira, Azure DevOps, Pipelines, REST API, CI/CD, Docker, Postman, Automation, Debugging

WebTech: HTML, CSS, JavaScript, React, VSCode, Agile, Selenium, NUnit

Certification: Microsoft Azure AI Engineer Associate

Jan 2021

EDUCATION

Professional M.S. in Computer Science | Simon Fraser University (SFU), Canada

Sep 2022 - Apr 2024

Notable Coursework: Big Data, Distributed & Cloud Systems, ML, Statistical Learning, Visual Analytics

B.Tech in Computer Science | Vellore Institute of Technology (VIT), India

Jul 2014 - Apr 2018

Notable Coursework: OOPs, Data Structures and Algorithms, Computer Networks, Database Systems, Cloud Computing

EXPERIENCE

Software Analyst | Translink, Canada (Co-op)

Apr 2023 - Dec 2023

- Developed **Flask** app processing 10k+ user stories on Azure **DevOps**, integrated Azure **GPT** for improvement, reducing **90%** QA time
- Implemented Selenium WebDriver for automated testing in Azure **CI** pipeline, reducing testing time by **85%** and enabling automation
- Developed **Python** script for Azure Repos & Pipeline data retrieval, optimizing with **SQL DB** for **30%** faster storage and management
- Utilized **Power BI** to create insightful visualizations, leading to quicker data-driven insights and enhancing decision-making
- Proposed a crowd-counting Azure-based solution for train platforms, presented at a hackathon, highlighting effective **communication**

Project Lead | SFU Blueprint, Canada (Volunteer)

Sep 2023 - Dec 2023

- Led and developed a club website using HTML, CSS, and **React**, to amplify the club's visibility and enhance reach to nonprofits
- Configured **GitHub Actions** with YAML for automated testing, building, and deployment on Vercel, streamlining the release process

Software Developer | Acronotics, India (Full-Time)

Oct 2021 - Aug 2022

- Built and deployed a scalable intelligent bot capable of handling **20k+** employees, resulting in **35%** lower service tickets
- Integrated Azure Cognitive Services using **Node.js** at the backend, enabling the bot to understand user intent in **7** different languages
- Integrated **Application Insights** for data collection, giving data-driven optimizations and achieving a **15%** increase in user review rating
- Enabled fault tolerance and higher availability by deploying backup servers across multiple AZs, achieving **99.95%** availability
- Developed REST **APIs** in **Express.js** to create support tickets and connect live agents, resolving unhandled bot intents promptly

Project Engineer | Wipro, India (Full-Time)

Jul 2018 - Sep 2021

- Used **Neo4j** DB to analyze simulated transactions, boosting accuracy by **15%** in detecting money laundering and faults transactions
- Extracted and processed data (**Python**) for a text-to-audio ML model, enhancing its performance by **5%** for domain-specific keywords
- Collaborated in a team of 10, delivered client **demos**, and achieved milestones through effective **communication** and **teamwork**

PROJECTS

Personal Website | Canada

Nov 2023 - Nov 2023

- Developed a responsive website using HTML, CSS, and React, employing **media queries** for mobile & desktop adaptability
- Utilized React components and the **state hook** to manage the navigation hamburger, enhancing user interaction
- Leveraged React's **JSX** syntax for declarative UI development, ensuring code readability and maintainability
- Implemented a **modular** approach by storing data in a separate **JS** file, facilitating easy content updates

Yelp Data Analysis and Review Prediction | SFU, Canada

Sep 2022 - Dec 2022

- Used **PySpark** to analyze JSON files, identified users and review trends over the last **15** years to understand growth
- Utilized **SparkML** to establish a relationship between the user and business attributes, predicting user ratings for businesses
- Conducted sentiment analysis on review text using **NLTK** and **Textblob** library, incorporating findings into the prediction model