

AKSHATA SINGH

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EDUCATION

- **University at Buffalo (SUNY Buffalo)** Buffalo, NY
Masters of Science in Computer Science *Anticipated Dec 2022*
 - **A. P. Shah Institute Of Technology** Mumbai, India
Bachelor of Engineering in Information Technology: (Rank 1/80) CGPA: 9.4/10 *Aug 2017 - June 2021*
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TECHNICAL SKILLS

- **Programming Languages:** HTML, CSS, PHP, JavaScript, TypeScript, Python, R, Solidity, GraphQL
 - **Cloud and Databases:** MySQL, SQL Server, PostgreSQL, GCP, AWS, MongoDB
 - **Environment and Frameworks:** Unity, Hadoop, Bootstrap, Node.js, Jest, MUI
 - **Platforms and Tools:** MS-Office, R studio, VS Code, Git, Rasa, Postman, Docker
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PROJECTS

- **Blockchain - Campus Feedback Token** (Solidity, HTML, CSS, JavaScript) *Oct 2021 - Dec 2021*
Implemented customized Token on Blockchain using ERC20 standard smart contract. The project aimed at improving the campus dining feedback system in order to improve the service.
 - **Machine Learning Projects** (Python, TensorFlow, pandas, Jupyter Notebook) *Oct 2021 - Dec 2021*
 - Using Pima Indians Diabetes Database, classified whether a patient has diabetes (class 1) or not (class 0) using logistic regression and neural network as the classifier.
 - Using Cifar10 dataset, performed kmeans clustering from scratch on a representation generated by the Auto-Encoder method.
 - Implemented Q-Learning algorithm from scratch for reinforcement learning to train an agent to learn the trends in stock price and then perform a series of trades.
 - **IoT Project** (HTML, PHP, MySQL, Rasa, AWS, Node-RED, Tinkercad) *Oct 2020 - Apr 2021*
Developed an IoT based remote Health care system with a website for doctors and patients along with an AI Chatbot and an EHR (Electronic Health Record) maintained in AWS Cloud.
 - **Job Portal website** (HTML, CSS, PHP, MySQL, JavaScript) *Dec 2019*
Developed and hosted a user-friendly Job Portal website to help in online search for job seekers and to facilitate the company to search for the best candidate available.
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EXPERIENCE

- **Software Engineer Intern** - Green Action Studio, New York *Jun 2022 - Aug 2022*
Tools/Tech: NodeJs, GraphQL, MongoDB, AWS CDK, Kafka, Typescript, React, Postman, Jest, VS Code
 - Full-stack application development using JS libraries and frameworks
 - Writing GraphQL queries to perform CRUD operations on MongoDB database
 - Implementing REST APIs using AWS Lambda functions
 - Integrated Payment Gateway for automatic billing.
 - Moved the existing Event System to AWS MSK (AWS Kafka)
 - Writing unit tests using Jest.
 - Continuous deployment and integration for production website using AWS CDK.
 - Code Maintenance and Bug fixing using git
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EXTRACURRICULUM

- Volunteered to take lecture notes for a student with disability during Fall 2021 semester at University at Buffalo.
- (Aug 2021 - Dec 2021)
- Designed wireframes, prototypes, various certificates and posters using Figma, Adobe XD, Photoshop and CorelDraw.
- Innovation head and Technical member of an interdisciplinary organization where I designed an IoT based monitoring system to track the health and other necessary parameters of vehicle's components. (Jul 2019 - Mar 2020)