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Shantanu Kumar

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Education

New York University | *New York, US*   **Sep 2021-Jun 2023**

- **Maters of Science (M.S.)** Computer Engineering (GPA: 3.93 Received Merit Based Scholarship)
- **Related Coursework**: Big Data, Cloud Computing, Advance Project, Machine Learning, Deep Learning.
- 2nd prize in Dji Robomasters North America competition, worked in Computer Vision and Embedded integration.
- Course assistant for RTES and Design Project, tutored python & guided seniors through design process.
- Represented Microsoft as Ambassador at Hackcon, leading workshops and mentored teams at Hackathons.

Indraprastha University | *Delhi, India*   **Aug 2015-Jun 2019**

- **Bachelor of Technology (B. Tech)** Electrical and Electronics Engineering
- **Related Coursework:** Data Structures Algorithm, Database management, Object oriented programming C++
- 1st position at ESI India, 2nd at FMAE Baja & represented India in USA, worked in the Data acquisition team.
- 1st position at DTU Hardware Challenge, 2nd position at NSUT Robotics & in top 10 at Smart India Hackathon.

Experience

Software Developer |One Community | *New York, US*   **Jul 2023-Present**

- Achieved 60% reduction in loading speed by implementing lazy loading, conducting code reviews, addressing bugs, developing new features, and executed comprehensive testing of web application.
- Utilized tech stack with React.js, Express.js, Redux, MongoDB, Node.js, Git, Figma, and ESLint.

Graduate Research Assistant |NYU Impact Innovation Lab| *New York, US*   **Jan 2022-Aug 2022**

- Engineered a device to replace Reflex and MRI with an efficient hand scanning procedure for arthritis detection using IR thermal detection cam and machine learning, achieving a cost reduction of over 95%.
- Designed and crafted an intuitive user interface compliant with HIPAA standards, employing React.js and AWS. Implemented end-to-end real-time encryption for secure chat functionality within the control panel.

Software Application Developer | Axenet IT Services | *Delhi India*   **Dec 2019-Feb 2021**

- Led frontend development of 14 applications with 300k+ downloads on Play Store.
- Integrated features such as location-based recommendation system & story component, enhance 16% increase in bookings and 20% boost in customer retention for Encamp travel App.
- Implemented blog feature with comment threads, driving a 30% boost in customer engagement in book-reader app.
- Proficiently utilized Dart, Flutter, React.js, Tailwind, Bootstrap, Firebase, Git, AWS, Figma, and Illustrator.

Relevant Projects

Recovery Bridge AWS | AWS Cognito, Lambda, API Gateway, DynamoDB, React, Sagemaker, Machine Learning, Elasticsearch

- Developed a web application to predict drug overdose & provide targeted support for high-risk patients.
- Designed microservice based architecture using Rest APIs, Lambda, and DynamoDB for streamlined data pipelines.
- Classified patients in risk group of 1-10 depending on severity, sourced data from US health and human services.

Astroturfing and reviews detection for Big Data | Apache Spark, PySpark, Kafka, MongoDB, Distributed Systems.

- Collaborated in developing scalable big data architecture for detection of astroturfing and fake reviews.
- Designed a pipeline to load, process and store product reviews, tweets, and news articles data in real-time.
- Achieved accuracy of 89% after training & tuning 4 different language model architectures in Spark ML lib.

Web-App deployment on Kubernetes | Docker, Kubernetes, MongoDB, Minikube, Flask

- Dockerized a Flask-MongoDB app, created a persistence volume, pushed the image to Docker Hub.
- Deployed the container on the Kubernetes cluster using Minikube and AWS EKS to create CI/CD pipeline.
- Utilized Kubernetes features for replication, health monitoring, rolling updates, and alerting.

Technical Skills

Language and Skills	: Python, C, C++, Html, CSS, JavaScript, Dart, SQL, Agile
Framework and Libraries	: React.JS, Node.JS, Tailwind, Bootstrap, Flutter, MongoDB, NoSQL
Software	: AWS, Azure, GCP, Firebase, Figma, Spark, Hadoop, Git, VS Code, Docker