

Surya Akella

147 W 111st Apt 8, New York, NY 10026
+1 (213) 234-8806 | sa4084@columbia.edu | <https://github.com/sa4084>

EDUCATION

Columbia University <i>Master of Science in Computer Science GPA: (3.83/4.0)</i> Relevant Coursework: Distributed Systems, Cloud Computing and Big Data, Operating Systems, Advanced Big Data and AI, Algorithms, Programming Languages, Databases, Software as a Service, UI Design.	New York May 2023
Guru Gobind Singh Indraprastha University <i>B.Tech in Electronics and Communication Engineering GPA: (9.15/10.0).</i> Department Rank: 3rd out of 191.	New Delhi Nov 2020

SKILLS

- Languages: Python (Advanced), Javascript (Advanced), C++ , C , Go, Ruby.
- Technologies: AWS, React.js, Node.js, Vue.js, Django, Flask, MySQL, Pytorch, Tensorflow, OpenCV, Git, Flutter, Linux, GraphQL, Ruby on Rails, MongoDB, GCP.

WORK EXPERIENCE

Columbia Business School <i>Software Engineer</i>	New York May 2022 - May 2023
<ul style="list-style-type: none">• Implemented lazy loading using Javascript for homepage images which reduced the bounce rate by 30%.• Designed and built a backend database for eco-label which helps brand signup using AWS Dynamo DB, Lambda function, API Gateway for eco-label for different brands.• Devised a frontend tracking feature for truck owners to locate their trucks improving operational efficiency by 25% using ReactJs and the Google Maps API.• Performed automation testing on website that identified and resolved 3 security bugs in the authentication system, using Selenium and Python.	
BlueStacks <i>Member of Technical Staff</i>	New Delhi Jul 2021 - Nov 2021
<ul style="list-style-type: none">• Developed 50+ automation tests using Flutter for game.tv (2.0 version), saving 20% manual testing time and driving a better user experience with 5M+ active users.• Performed a parallel execution method in Flutter, reducing the execution time of the sanity test suite by 50%.• Devised Python script using OpenCV for efficient retrieval and organization of images across recursive folders, cutting down content managers time spent in locating and managing images by 50%.	
Indraprastha Institute of Information Technology <i>Research Assistant</i>	New Delhi Jan 2021 - Mar 2021
<ul style="list-style-type: none">• Incorporated the segmentation for an AI based 3D volumetric exploration for CT/MRI/cryo medical images, enabling doctors to experience an immersive VR-based environment for enhanced diagnosis using Slicer3D and Python.	
Samsung Research and Development <i>Software Engineer</i>	New Delhi Feb 2020 - Jun 2020
<ul style="list-style-type: none">• Developed a Convolutional Autoencoder using PyTorch for background removal, laying the foundation for seamless integration into Samsung's image processing pipeline and increasing workflow efficiency by 30%.	

PROJECTS

- ResilientKV : Implemented a fault-tolerant and scalable key/value storage system using Paxos for agreement and sharding for improved throughput and load balancing in Go Lang and Google Cloud.
- DineBot : Created a serverless, microservice-driven Dining Concierge chatbot using AWS services, Amazon Lex, API Gateway, Lambda, S3, DynamoDB, ElasticSearch, and integrated with Yelp API for restaurant suggestions.
- Pantry : Conducted kernel hacking in C by replacing the existing file system driver for Linux, including disk formatting, mounting, file creation, directory listing, and lookup functionality.