

# Aarushi Dhingra

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## EDUCATION

- **Arizona State University** **Tempe, AZ**  
Master's in Computer Science; GPA: 4.00/4.00 August 2022 - May 2024
- **Guru Gobind Singh Indraprastha University** **Delhi, India**  
Bachelor of Technology in Information Technology; GPA: 9.00/10 August 2018 - June 2022

## SKILLS

- **Languages:** C/C++, Java, Python, SQL, JavaScript, Typescript, C#
- **Tools and Frameworks:** React.js, Node.js, GraphQL, Azure, Spring, Git, AWS Glue, AWS S3, AWS SageMaker, AWS Lambda, Serverless, Docker, Kubernetes, Google Earth Engine, Elasticsearch - Logstash - Kibana, API Development, GenAI

## EXPERIENCE

- **Goldman Sachs**, Software Engineer Intern - Dallas, Texas, US **June 2023 - August 2023**
  - Reduced costs by **15%** by spearheading a data migration initiative from on-premises to cloud, leveraging Kafka for efficient data streaming through APIs and achieving seamless, real-time data flow that enhanced migration efficiency and reliability, all orchestrated using Spring Boot.
  - Built and launched an access-controlled unified API using **GraphQL** and **Spring Boot**, which reduced operational complexity by **90%**. This streamlined approach to data retrieval across the organization eliminated the need for multiple endpoints, enhancing overall efficiency and system simplicity.
  - Engineered and deployed a full-stack interactive **ReactJS** interface, empowering the finance team to independently construct custom queries with robust filters and controls. This enhancement significantly boosted data accessibility and empowered users, fostering a more agile and self-sufficient workflow.
  - Optimized backend performance by implementing intelligent caching and A/B testing, significantly reducing data latency.
  - Productionized code adhering to industry standards, including the implementation of robust CI/CD pipelines.
- **Arizona State University**, Instructional Aide - Tempe, AZ, US **August 2023 - May 2024**
  - Improved student engagement by almost **25%** through the strategic implementation of Agile Development practices using Canvas and Slack for dynamic course management, fostering an environment of interactive learning and feedback.
  - Facilitated **Software Enterprise Course** as an Instructional Aide, emphasizing Agile Development, CI/CD, Unit Testing, Code Reviews, and Design Patterns, leveraging Git/GitHub for effective version control system.
- **Newgen Software**, Software Engineer Intern - Noida, UP, India **February 2022 - June 2022**
  - Enhanced application security and user experience by seamlessly integrating Spring Security for back-end authentication and leveraging Angular's HttpInterceptor for frontend security, resulting in a **25% reduction** in unauthorized access attempts and a **30% improvement** in user login workflow efficiency for our client - Wilson Bank & Trust, US.
  - Spearheaded the design and development of a secure, **full-stack web application** using **AngularJS** and **Spring Boot**, successfully implementing a cutting-edge JWT authentication system that meticulously enforces role-based access controls for users, moderators, and admins
- **Learn By Research**, Machine Learning Researcher - Remote, India **September 2021- November 2021**
  - Achieved an unprecedented **98.97%** prediction accuracy in audio classification by designing and implementing a state-of-the-art sound classification system. Utilized the Librosa package in **Python** for feature extraction and analysis of the ESC-50 Dataset and Ultrasound8k Dataset. The system was built around a sophisticated **SB-CNN** model, setting a new standard in accuracy and surpassing existing benchmarks in the field.
- **Saint Louis University**, Software Engineer Intern - Data - St. Louis, Missouri, US **June 2021 - July 2021**
  - Reduced the company advertising expenses by **Rs.10,000/month** by analyzing metrics such as reach, clicks, click-through rate, unique-link clicks, cost per click, and cost per unique click to identify under-performing campaigns and suggest alternatives.

## PROJECTS & PUBLICATIONS

- **CartoonifyGAN Project:** Engineered an innovative web-based solution to transform regular images into cartoon-style illustrations using Generative Adversarial Networks (CartoonGAN). Successfully implemented and deployed a high-availability application that scales dynamically, utilizing AWS Lambda for running Python code and AWS S3 for model storage. Enhanced user experience with fluid animations using Framer Motion and built a responsive front-end interface with React.js. *Technologies Used:* AWS Lambda, AWS S3, Serverless Framework, React.js, Python, Framer Motion - [↗](#)
- **Influence of Land Surface Temperature and Rainfall on Surface Water Change: An Innovative Machine Learning Approach** *Water Resources Management Journal, Springer* - [↗](#)