SAFDAR AHMED

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Education

New York University — Sep 2023 - May 2025
Master of Science in Computer Engineering (GPA: 3.9) — *New York, NY*

Jaypee Institute of Information Technology — Jul 2018 - Jun 2022
Bachelor of Technology in Computer Science (GPA: 3.6) — *Noida, India*

Experience

Endless Frontier Labs — May 2024 - Present
Developer Associate — *New York, NY*
- Delivered a tool to rank 1600+ VC investment candidates using Python and Spark, evaluating historical success factors
- Implemented an employee-matching microservice with Python and AWS lambda, using the stable marriage algorithm to match potential hires with over 200 startups, resulting in reduced churn
- Enhanced website performance by migrating to a multi-tier architecture, boosting Lighthouse score from 77 to 92

Hype AI — Jun 2024 - Aug 2024
Software Engineer Intern — *New York, NY*
- Spearheaded the enhancement of marketing campaign generation feature, improving customer satisfaction scores by 35% by fine-tuning text-to-image model to reduce AI-generated content artifacts
- Expanded user control over AI-generated images by developing interactive UI elements for properties such as size, camera angle, lighting, and style, utilizing TypeScript and NestJS, leading to a better user experience
- Overhauled the document management system with a scalable MongoDB schema, designing GraphQL APIs for hierarchical folder organization, sharing, CRUD operations, global search, and user-specific access controls

Deloitte — Feb 2022 - Aug 2023
Technology Analyst — *Gurugram, India*
- Streamlined cloud alert management for Fortune 100 company, resulting in over 500 analyst hours saved annually
- Built cyber threat detection tools using TypeScript, Python, and PyTorch, empowering the Sec-Ops team to exceed cybersecurity QoS metrics, reducing average incident response time by 40%, and averting potential breaches
- Mentored interns, conducted knowledge transfer sessions for the team, and maintained a high utilization at over 90%

HW Saver — Mar 2021 - Jul 2021
Software Engineer Intern — *Delhi, India*
- Collaborated with a team of 8 engineers at an ed-tech startup to implement a tool for solving complex math equations
- Implemented tokenization of equations on the React frontend, processed solutions in parts on the Django backend, and utilized PostgreSQL for database management
- Achieved 6x faster deployment times by automating software delivery using Jenkins, Docker, Kubernetes, and Selenium

Projects

Smart Image Gallery | *Flask, Docker, EKS, Lex, Lambda, ElasticSearch, DynamoDB, S3* — May 2024
- Engineered a containerized flask application using Docker, enabling text-based searches of gallery image contents
- Leveraged AWS Lex, Rekognition and ElasticSearch for image labeling and querying, with Elastic Kubernetes Service for scalable deployment and Prometheus for monitoring and self-healing
- Streamlined infrastructure management and code delivery with AWS CodePipeline and CloudFormation

Dining Concierge Recommender System | *Python, JavaScript, Lex, SQS, Lambda, DynamoDB* — Mar 2024
- Designed a Lex-based chatbot that maintains persistent user states for personalized restaurant recommendations
- Architected a robust backend using AWS Lambda, SQS, and SES, and front-end integration via S3 and API Gateway
- Created a database of 10k+ restaurants in NYC by scraping Yelp and indexing DynamoDB with Elasticsearch

Secure Medical Records Platform | *JavaScript, Solidity, Big Query, Tableau* — May 2022
- Engineered a decentralized medical record management application using Solidity and JavaScript, facilitating secure patient management of record access via private keys
- Enabled real-time disease spread tracking with BigQuery and Tableau, improving public health decision-making

Technical Skills

Languages & Frameworks: TypeScript, React, NestJs, Node.js, Python, Flask, Django, GraphQL, C/C++
Developer Tools: Docker, Kubernetes, Jenkins, VS Code, Jupyter, Tableau, Git, Terraform, AWS, GCP
Databases: PostgreSQL, MySQL, ElasticSearch, MongoDB, DynamoDB
Coursework: Algorithms, Operating Systems, Computer Networks, Big Data, Cloud Computing, Machine Learning