Akshat Shukla

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EDUCATION

IIT KHARAGPUR
Btech in Computer Science and Engineering
2018 - 2022 | India
CGPA: 9.17/10.0

LBS SR. SECONDARY SCHOOL
AISSCE
2018 | Kota, India
Aggregate: 92%

ACHIEVEMENTS

SCHOLASTIC
• All India Rank **225** in **JEE Advanced** 2018 among 2.5 Lakh candidates
• All India Rank **260** in **JEE Mains** 2018 among 1.2 million candidates
• Among the **top 0.1%** in Kishore Vaigyanik Protsahan Yojana Fellowship
• National Finalist in **Indian National Chemistry Olympiad (INChO)** 2017
• National Finalist in Aditya Birla Group Scholarship for country's top scholars from premier institutes

SKILLS

Languages
Java • C • C++ • Python • JavaScript
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Spring • Kafka • Elasticsearch • Mongo
NodeJS • ReactJS • AngularJS • Django
Express with NodeJS • Docker • NLP
BeautifulSoup • OpenCV • Pytorch

COURSEWORK

PROGRAMMING
• Algorithms
• Object Oriented Programming
• Machine Learning
• Deep Learning
• Operating Systems
• Scalable Data Mining
• Computer Networks

STATISTICAL
• Linear Algebra
• Operations Research
• Probability and Statistics
• Numerical Methods
• Discrete Mathematics

EXPERIENCE

Sprinklr, Gurgaon | Product Engineer
July 2022 - Present

• Designed and Implemented a **User Screener** for customizable auto user onboarding leading to operational cost savings of 70+ man hours monthly.
• Developed a streamlined edition of Sprinklr platform (**CXM**) tailored for low-volume clients with pre-configured setups aligned with specific use cases.
• Executed migration of company-wide job scheduling operations from **SQL-based Quartz Scheduler** to **MongoDB and Kafka** schedulers. Achieved significant cost optimization, leading to a savings of around **$500K yearly**.
• Redesigned the email infrastructure by integrating **Reactive** programming strategies to optimize thread usage and enhance system resiliency.
• Revamped the current **SSO auto-provisioning** system for users using intuitive mappings, resulting in reduction of customer turnaround time by **98%**.

Sprinklr, Gurgaon | Intern
May 2021 - June 2021

• Modeled a code analysis and debugging tool using **Codeclimate and Docker**
• Developed a framework for effortless edits and additions to code quality rules
• Integrated code quality tool into company's **CI/CD** pipeline, generating reports on GitLab for streamlined development process and enhanced code quality.
• Optimized the tool to reduce code quality check runtime by approximately **94%**

Statsplex LLC, Illinois | NLP Intern
June 2022 - July 2022

• Worked on **generative models** to generate questions from text and formulated ranking algorithms to rank them in order of relevance
• Improved ranker's accuracy by **15%** by formulating a ranking algorithm which used the pre-trained transformer model multi-qa-mpnet
• Developed a pipeline for scraping with the functionality of generating top 10 keywords using **TF-IDF** and pre-trained word-embeddings based algorithms

PROJECTS

Bug De-duplication | Undergraduate Research
July 2021 - March 2021
Prof Soumen Chakraborty | Prof Animesh Mukherjee | Prof Pawan Goyal

• Worked on an algo to de-duplicate bugs for softwares like Ubuntu, Open Office
• Improved data scrapers reducing the data collection time from 7 days to 3 hours
• Obtained optimal analysis score by strategically sampling 100 billion+ bug pairs
• Implemented multiple **Deep Learning** based strategies to aggregate and de-duplicate bug reports using their **BERT embeddings**

Pristine Products | Self Project
July 2020 - Oct 2020

• Developed an e—marketplace for products only from Startups to boost sales
• Developed core site features, including cart and wishlist. Implemented seamless redirection to Amazon pages for all items during checkout.
• Implemented a scraper in Python to include products of desired companies from Amazon's and Myntra's site with their product details