KUSHAL KOTHARI

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EDUCATION

New York University, United States Sep'23 - May'25
Master's in Computer Science (MSCS)
Leadership: NYU Graduate Ambassador

University of Mumbai, R.G.I.T, India Jul'18 - Jun'22
Bachelor of Engineering in Computer Science

SKILLS

Programming Languages & Frameworks: Python, Java, **C++,** C, Django, **Apache Spark, Kafka, Airflow** | **Cloud & DevOps: AWS(Certified Cloud Practicioner),** GCP, Azure, Docker, Kubernetes, Terraform, Jenkins, CI/CD | **Databases:** Snowflake, Redshift, BigQuery, PostgreSQL, MySQL, Cassandra, MongoDB | **ETL & Data Pipelines:** Apache Nifi, Talend, Fivetran, DBT, Glue, Kafka Streams | **Tools:** Git, Jira, Jenkins, Postman, Looker, Tableau, Power BI, MS Excel, GitLab

PROFESSIONAL EXPERIENCE

New York University Wasserman Center, New York, United States Dec'23 - Present
Software Engineer
- **Developed and maintained** a ticketing system using **Python and Flask, improving response time by 50%** and **increasing team efficiency**.
- **Set up and managed AV** and IT equipment **for large-scale events**, **reducing downtime by 30%** and optimizing student check-ins via Atrium.
- Automated career fair logistics, streamlining processes and reducing **manual efforts by 40% and troubleshoot hardware/software issues in real-time during events, reducing technical disruptions by 30%.**

SalesCaptain, New York, United States May'24 – Sep'24
Software Engineer Intern
- Engineered AI-driven solutions for customer engagement, enhancing **automated messaging, webchat, and payment integrations**, increasing conversion rates by **22%**.
- Optimized backend infrastructure, reducing system latency by **30%** and enabling real-time follow-ups, reminders, and insights automation.
- Improved AI-powered text generation and phone automation, decreasing customer response times by **40%** and increasing retention by **18%**.

Media.Net, Mumbai, India Sep'22 - Aug'23
Software Engineer
- **Spearheaded website migrations**, optimized scalable solutions, formulated relational databases and utilized **statistical methods to analyze website performance metrics** and inform optimization strategies, contributing to a 20% reduction in launch errors, resulting in **$32,000 savings.**
- Functioned as the **primary technical liaison**, swiftly addressing product issues for the business team, resulting in a **30% decrease** in support ticket resolution time.
- **Improved products** and boosted user engagement by **15%** through documentation and insight-based enhancements.
- **Implemented and devised applications on AWS**, optimizing cloud infrastructure for performance and cost efficiency.

Google Summer of Code, Remote, United States (*Link*). Apr'21 – Aug'21
Research Intern
- Designed and implemented a Yggdrasil client library for Erlang, enabling **end-to-end encrypted IPv6 networking** and improving system configuration efficiency during runtime.
- Delivered critical modifications to the **Erlang Barrel database** for secure peer-to-peer replication, ensuring seamless integration with the Yggdrasil network.
- The project evolved into further research at **IIT Kanpur**, culminating in a publication at the **IEEE ICICT 2022**, enhancing network security protocols.

PROJECTS

ADVANCED MALWARE DETECTION SYSTEM FOR LARGE-SCALE DATA (XGBoost, Machine Learning, Data Optimization) (*Link*)

- Created a machine learning model that classified **21,736 malware files into 9 families**, achieving an **85% error rate reduction** and decreasing malware detection time by **60% for over 150 million users globally.**
- **Engineered and enhanced feature extraction** from **200GB of data**, reducing processing time by **35%** and improving real-time protection efficiency using **XGBoost with hyperparameter tuning.**