Kshitiz Lakhotia

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EDUCATION

Arizona State University, Tempe   Aug 2022 – May 2024
Master of Science in Computer Science   *GPA 4.0/4.0*
- Statistical Machine Learning, Data Processing at Scale, Mobile Computing, Data Mining.

Manipal Institute of Technology, India   Jul 2018 – Jul 2022
Bachelor of Technology in Information Technology
- Data Structures and Algorithms, Object Oriented Programming, Computer Networks, Operating Systems.

SKILLS

Languages: C++, Python, JavaScript, Java, SQL, Bash.
Databases: PostgreSQL, MySQL, MongoDB, AWS DynamoDB, Firebase.
Frameworks: Flask, Django, Node.js, React.js, TensorFlow, NumPy, Scikit-Learn, HTML, CSS, Bootstrap.
Technologies: AWS, Git/GitHub, Windows, Linux, Docker, Kubernetes, FastAPI, Android, Flutter.

EXPERIENCE

Cohesity   Jan 2022 – Jul 2022
Software Engineer Intern - Site Reliability Engineering   *Remote*
- Streamlined **efficiency by 40%** by reducing manual efforts and errors through log retrieval and summarization.
- Boosted reliability by integrating cron job health check into Cohesity Helios using **Bash and Python** scripts.
- Reduced **turnaround times by 65%** by enabling automated return authorization across all distributed nodes.

Axis Bank   May 2021 – Jul 2021
Data Science Intern - Business Intelligence Unit   *Mumbai, India*
- Enhanced model **accuracy by 12%** by developing a challenger to the existing credit risk machine learning model.
- Identified the ideal algorithm **XGBoost** using H2O AutoML and tuned hyperparameters using Grid Search CV.
- Achieved a **35% reduction** in model bias by ranking features using Shapley value and Permutation Importance.

ICICI Securities   Mar 2021 – May 2021
Software Developer Intern - Fixed Income Group   *Mumbai, India*
- Developed an application for multiple time-frame analysis on stock data using **Python** and Yahoo Finance API.
- Constructed modules for calculating 5 trading indicators, **data visualization**, and designing GUI using Tkinter.

Autovista   May 2020 – Jul 2020
Full-Stack Developer Intern   *Remote*
- Engineered a customer relationship management (**CRM**) dashboard using **Django, React, and PostgreSQL**.
- Improved performance by **reducing lookup time by 25ms** through query optimization and indexing.
- Delivered a **40% increase in lead conversion rate** using lead scoring and working in an agile environment.

PROJECTS

Omni-Chat | *C++, Node.js, JavaScript, HTML, CSS*
- Pioneered a scalable chat by integrating **C++ and Node.js** servers using **WebSockets** for up to **50 users**.
- Incorporated multithreading to handle concurrent connections and translate messages, **reducing latency by 3s**.

Cloud Native Monitor App | *Python, Flask, Docker, Kubernetes, AWS*
- Created a real-time CPU and memory utilization percentage monitor using **Flask, Python, and HTML**.
- Implemented Docker for application containerization and orchestrated deployment on **AWS EKS** for scalability.

QR Attendance Application | *Flutter, PostgreSQL, FastAPI*
- Spearheaded the development of an Android application with distinct views for **5 faculty and 250+ students**.
- Formulated **REST APIs** for attendance management and generated a dynamic QR code for each class session.

ORGANIZATIONS

Open Source Contributor: Chapel-lang.   **Managing Committee Member:** IEEE-SBM, PyData Manipal.