

Kshitiz Lakhotia

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EDUCATION

Arizona State University

Aug 2022 – May 2024

Master of Science in Computer Science

GPA 3.96/4.0

- Mobile Computing, Statistical Machine Learning, Data Processing at Scale.

Manipal Insitute of Technology, India

Jul 2018 – Jul 2022

Bachelor of Technology in Information Technology

GPA 8.71/10

- Data Structures and Algorithms, Web Development, Computer Networks, Operating Systems.
- Open Source contributions to Chapel (Google Summer of Code 2021 Organization)

SKILLS

Languages: Python, C++, JavaScript, Java, SQL, Bash.

Technologies: Flask, Django, Node, React, AWS, Linux, Docker, Kubernetes, PostgreSQL, MongoDB, Pandas, Git.

Concepts: Data Structures and Algorithms, Data Science, Machine Learning, Backend Development, Software Engineering, Agile Methodologies, API Development, Object Oriented Programming, Data Analysis.

EXPERIENCE

Cohesity

Jan 2022 – July 2022

Software Engineer Intern

- Achieved **60% increase in reliability**, as measured by reduced downtime, by automating defective parts return.
- Increased fault detection **recall by 30%** through integrating Bash scripts in Cohesity Helios and using alert APIs.
- Enhanced support team responsiveness by delivering concise error logs summary via mail using Python and SMTP.

Axis Bank

May 2021 – July 2021

Data Science Intern

- Obtained an **accuracy improvement of ~12%** by executing challenger model to the existing credit risk model.
- Identified optimal algorithm for data using H2O AutoML and fine-tuned hyperparameters using Grid Search CV.
- Enabled model interpretability by ranking feature importance using Shapley value and Permutation Importance.

ICICI Securities - Fixed Income

Mar 2021 – May 2021

Software Developer Intern

- Developed Market Analysis System, **expediting analysis by 10 minutes** using Python and Yahoo Finance API.
- Constructed Python modules for calculating indicators: Simple Moving Average, Commodity Channel index, etc.
- Designed a 3-page Graphical User Interface with Tkinter to facilitate data visualization using Matplotlib.

Autovista

May 2020 – July 2020

Full Stack Developer Intern

- Innovated a Customer Relationship Management dashboard built using Django, React, and PostgreSQL.
- Improved real-time performance and reduced search time in database queries by **~25ms** through indexing.
- Accomplished a **10% increase in lead conversion rate** by lead capture and prioritization using lead scoring.

PROJECTS

Omni-Chat | C++, Node, JavaScript, HTML, CSS

- Pioneered a scalable chat by integrating C++ and Node.js servers using socket programming for up to **50 users**.
- Incorporated Multithreading, to handle concurrent connections and messages, **reducing latency by 10s**.

TaskWise | Node, React, MongoDB, JavaScript, HTML, CSS

- Engineered a task manager using Node, React and MongoDB, allowing task creation, deletion, and assignment.
- Augmented task visibility by providing sort by task deadline and task importance options on the dashboard.

QR Attendance | Flutter, PostgreSQL, FastAPI

- Led the development of an attendance application using Flutter, PostgreSQL, and FastAPI gaining **250+ users**.
- Created **REST APIs** with FastAPI to enable CRUD operations and fetch attendance records from the database.