RUSTOM ICHHAPORIA

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EXPERIENCE

Snowflake — Software Engineer   May 2023 – Present
- Developed a CLI tool to monitor cloud workspaces and build health across all software teams at Snowflake (Go)
- Created an automatically updating dashboard to communicate live cloud performance metrics to stakeholders (SQL)
- Updated and multithreaded a legacy codebase to speed up runtimes by 75% for downstream workflows (Python)

Hack4Impact — Software Engineer   Aug 2022 - May 2023
- Developed authentication and CRUD database operations for a React Native language-learning app (JavaScript, GCP)
- Translated Figma designs to React components and deployed live previews of mobile apps for stakeholder feedback
- Designed navigation and form data ingestion for a NextJS web app used for data collection at underfunded schools

IMC Trading — Quantitative Trading Intern   May 2022 – Aug 2022
- Designed an algorithm to predict the direction of index options trades with 25% increased accuracy over the baseline
- Backtested the algorithm to demonstrate a potential 4% increase in index trade profit over a 1-year timespan (Python)

AbbVie — Software Engineer Intern   Jan 2022 – Apr 2022
- Automated backend database operations for chatbot analytics, saving 10+ hours of developer time per month (SQL)
- Connected queries to a dashboard used by over 200 internal customers to monitor chatbot performance (Power BI)

IBM — Artificial Intelligence Research Intern   Sep 2021 – Dec 2021
- Integrated compressed models with a web UI for interactive model output comparisons using Streamlit (Python)
- Collaborated with NLP researchers on academic paper topic clustering at IBM's Center for Cognitive Computing Systems

Twitter — Software Engineer Intern   May 2021 – Aug 2021
- Architected end-to-end, production NLP system which categorized 500 million tweets daily in 3 languages (Python)
- Created both precision-focused and recall-focused model checkpoints to serve recommendation and content filtering
- Implemented crowdsourced prediction feedback loop and managed a $10k budget for participant compensation (Scala)

Motorola Solutions — Software Engineer Intern   Jan 2021 – Apr 2021
- Constructed Plotly web dashboard for a $5M revenue cybersecurity platform with dozens of B2B clients (Python)
- Coordinated AWS data pipelines between two companies under acquisition to streamline data for security platforms

Illinois Risk Lab — Data Science Research Intern   Sep 2020 – Dec 2020
- Constructed predictive statistical models from scratch for AI-powered financial lifecycle planning service (Python)
- Facilitated full-fledged data science pipeline: dataset selection to ensemble modeling for eventual deployment

Northwestern University — Data Science Research Intern   May 2019 – Jan 2020
- Authored a social network paper that modeled online team self-assembly with exponential random graphs (R, SQL)
- Presented research at computational intelligence conferences, receiving 2000+ downloads and multiple citations

Fermilab National Accelerator Laboratory — Software Engineer Research Intern   Aug 2018 – Apr 2019
- Refreshed antiquated histogram binning program with caching for compositeness analysis, doubling efficiency (C++)
- Authored two publications on Monte Carlo simulations and presented work to research groups at two conferences

EDUCATION

University of Illinois at Urbana-Champaign — M.S. in Computer Science   May 2023 – May 2024
- Mentored undergrads and refreshed course curriculum as a teaching assistant for a Software Design course (Java, C++)

University of Illinois at Urbana-Champaign — B.S. in Computer Science and Statistics   May 2020 – May 2023

LANGUAGES & SKILLS

Proficient: Python | Go | C++ | R | SQL | Bash | HTML | CSS

Familiar: C# | Java | JavaScript | TypeScript

Tools: AWS | Google Cloud | Pandas | PyTorch | React | Tableau | MongoDB | REST