Taru Garg

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EDUCATION

- **Thapar Institute of Engineering and Technology** — Punjab, IN
  B.E. Electronics and Computer; GPA: 9.80; Gold Medalist — *2018 - 2022*
  Courses: Operating Systems, Data Structure and Algorithms, Cloud Computing and DBMS.

SKILLS SUMMARY

- **Languages**: Python, C/C++, SQL, Rust, Java, Node.js
- **Databases**: MongoDB, MySQL
- **Tools**: GIT, Postman, JIRA
- **Industry Knowledge**: FIX Protocol, QuickFIX, Protocol Buffers, AWS, Kafka, Flask, Pandas

EXPERIENCE

- **HashiCorp** — Bengaluru, Karnataka, IN
  Engineer — *Feb 2025 - Current*
  - **Packer**: Contributing to the core development of HashiCorp Packer, enhancing automation workflows for multi-cloud image building, improving performance, and ensuring seamless integration with infrastructure provisioning tools.

- **JPMorgan Chase & Co** — Bengaluru, Karnataka, IN
  Software Development Engineer - I — *Jan 2022 - Feb 2025*
  - **Development of a High-Scalability System for Cash Equity Settlements**: Leading the design and implementation of a highly scalable solution to support the delivery of millions of daily cash equity trades, ensuring optimal performance and reliability across accounting, regulatory reporting, and settlement systems for large transaction volumes.
  - **End-to-End Solution for Trade Data Delivery**: Worked on the development of a comprehensive solution to streamline the flow of derivative and stock trade information from the Athena Risk Management System to downstream systems, ensuring seamless delivery for accounting, regulatory reporting, and settlement processes. Currently, supporting daily transaction value of more than $50 Million.
  - **Performance Optimization of Regulatory and Control Reports**: Improved performance of end-of-day regulatory feeds, reducing runtime from 2 hours to 1.5 minutes for one report and from 5 hours to 15 minutes for another, substantially reducing the compute costs and mitigating any audit risks by implementing better caching strategies, optimal multiprocessing, and query optimization.

- **JPMorgan Chase & Co** — Bengaluru, Karnataka, IN
  SDE Intern — *Jun 2021 - Aug 2021*
  - **Data Quality Reporting Service**: Worked on the development of an e-mail-based data quality reporting service for internal Data Assets & Analytics Functions Management platform, allowing technologists and quantitative researchers to swiftly check and fix any anomalies in the data, across all the data sources available on the platform.

PROJECTS

- **Fix2Json**: Developed a Java-based CLI app to efficiently convert raw fix messages to human-readable JSON messages.
  Technologies Used: Java, QuickFIX/J, Git
- **theTVguide**: Developed a Flask-based web application that lets users search for different movies and shows & get more information about them.
  Technologies Used: Python, Flask, MySQL, HTML, CSS, Js, Microsoft Azure, Git
- **myPhone**: Developed a Flask-based web application that lets users connect and access files & features on their mobile through their PC. Further, it lets users seamlessly send any text they copied on their smartphone to their PC and access basic telephony features through their PC.
  Technologies Used: Python, Flask, HTML, CSS, Js, Git

PUBLICATIONS

- **Survey and Performance Evaluation of Clustering and Cooperative Medium Access Protocols for Vehicular Networks**: - Advanced Communication and Intelligent Systems (February 2023)

HONORS, AWARDS & CERTIFICATIONS

- Attained AWS Cloud Practitioner certification by Amazon Web Services in July 2023.

- Graduated with highest CGPA in Electronics & Computer Engineering, earning the institute medal.

- Merit scholarship recipient, Thapar Institute of Engineering & Technology, 2021-22 & 2020-21.

- Finished among the top 10 teams in Seccon AD CTF hosted by team bi0s in October 2020.

- Finished among the top 3 teams in the Code For Good hackathon organized by JPMorgan Chase & Co. in August 2020.