Harshitha Kolipaka

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SKILLS

- **Languages**: C, **Python**, Java, MS-SQL, MySQL, HTML, CSS, Javascript.
- **Tools & OS**: Postman, **Git**, **Docker**, JUnit, Selenium, Power BI, Streamlit, Windows, **Linux**.
- **Libraries & Frameworks**: Spring Boot, Hibernate, JSP, **PostgreSQL**, Django, MongoDB, Apache, ML & Deep Learning.
- **Soft Skills**: Curious, **Leadership**, **Communication**, **Collaborative**, Self-Learner, Visualizing.

EDUCATION

- **GITAM Deemed To Be University** — CGPA: 9.4 / 10, India
  Bachelor Of Technology - Computer Science and Engineering — *June 2021 - June 2025*

EXPERIENCE

- **Software Engineer Intern** — January 2025 - Current
  Micron Technology — *Hyderabad, India*
  - **Automated** employee BGV by developing a website using using Spring Boot, JSP, and Hibernate, improving HR efficiency by 50%.
  - Designed and implemented Python automation scripts for data extraction and analysis that saved over 10,000 manual hours while collaborating with cross-functional teams of 2 to 30 members.

- **Software Engineer Research Intern** — May 2024 - August 2024
  Mitacs - Université de Sherbrooke (Research Lab) — *Quebéc, Canada*
  - Engineered a **responsive web application** that reduced cancer patient's images data analysis time from 5 months to 15 minutes.
  - Spearheaded **pipeline development**; modeled an automated testing suite using **Selenium**, increasing code coverage by 30%.
  - Conducted research and built an end to end pipeline with advanced EDA, statistical analysis and visualization techniques in **Python**.
  - Leveraged **SQL** queries for strategic data manipulation, analysis, and reporting, boosted client insight reliability by 15%.
  - Worked on developing website for the research lab using HTML, CSS, and **Javascript**, and **backend** development using **Django**.

- **Data Scientist Intern** — December 2023 - April 2024
  Alcovex Product Studio — *India*
  - Optimized server efficiency by implementing a **multi-threaded** framework, cut down **server costs** by 50%.
  - Improved database queries in **MongoDB** through complexity optimization, reducing query response time by 20%.
  - Developed an **end to end LLM QC** evaluation pipeline using DeepEval, identified and rectified **memory leak** through model benchmarking showcasing 40% improvement.
  - Tested **RESTful API** by making POST requests using **Postman** and enhanced system capabilities by developing and maintaining custom **Linux** kernel modules, identifying and resolving system bottlenecks.
  - Maintained CI/CD pipelines using git and containerized applications using **Docker**, reducing deployment time by 40%.
  - Tested, cleaned large datasets, data models and deployed **Power BI** dashboards, leading to a 15% increase in revenue.

PROJECTS

- **Hybrid Algorithm to Summarization using Longformers**: Developed a hybrid approach using **Longformers** for summarization, assessed our model using DeepEval and ROUGE metrics, achieving 50% higher accuracy over traditional BART and BERT models.
- **Image Captioning and Voice Synthesis Model**: Designed a real-time image captioning system employing **CNNs**, alongside voice synthesis utilizing **LSTM** and TTS (text-to-speech) technologies to transform images into spoken descriptions, attaining an accuracy level of 94.0%.
- **Project Management App**: Built a **full-stack** application using React for frontend, Django for scalable backend APIs, and PostgreSQL managing over 10,000 task records efficiently. Integrated **WebSockets** for real-time updates, Firebase for instant notifications, and JWT ensuring **secure authentication**.
- **To-do List**: Implemented a Feature-rich To-do app using MongoDB, ExpressJS, NodeJS, and EJS, enabling **CRUD** operations, task prioritization, and due date tracking. Integrated real-time updates and batch task management. Utilized **Git** for version control and deployment.

ACHIEVEMENTS

- Secured a highly competitive 6-month **Software Development Engineer** (SDE) internship at **Amazon**, selected from thousands of applicants through multiple rigorous interview rounds.
- Selected as one of the **top 250** students for the **Google's Women Engineer (WE)** program by Google and Talentsprint amongst 70k+ applicants from across India.
- Stood amongst the **top 500 students** for the **MITACS** Globalink **Research Internship (Canada)** from a pool of 100K+ applications from across the **globe**.
- Participated as one of the **top 1000** students for the **Amazon ML Summer School Program** among 60k+ applications from across India.
- Served as the **Technical Lead** for the **Meta Developer Student** club, managing a team of **40+ developers**.