Hardik Kapadia (he/him)

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EDUCATION

University of Illinois at Chicago Chicago, IL
Master of Sciences in Computer Science Aug. 2023 – May 2025

University of Mumbai Mumbai, India
Bachelor of Technology in Computer Engineering Aug. 2019 – May 2023

EXPERIENCE

University of Illinois College of Medicine | *Chicago, IL* **May 2024 – Present**
Software Engineer - Graduate Research Assistant *Aug. 2024 – Present*
Software Engineer - Graduate Hourly *May 2024 - Aug. 2024*

- Collaborated on NIH-funded research project to develop a system for streamlined management of complex patient health information, advancing neurosurgical clinical research capabilities.
- Architected an advanced asynchronous file upload system using IndexedDB and Service workers, enabling efficient handling of massive multi-format research files reducing user wait times by 90%.
- Created a high-performance EEG viewer to process and visualize large (2GB+) medical data files, supporting real-time adjustments for amplitude, duration, time frames, montages, and frequency filters.
- Built a dynamic form-builder allowing researchers to design data entry interfaces for diverse patient information.
- Implemented granular role-based access control (RBAC), ensuring secure and tailored access to functionalities.
- Designed an intuitive interface that optimized user workflow, significantly enhancing researcher productivity.

Key technologies: *Python, Javascript, Django, PostgreSQL, HTML/ CSS.*

Sahamati | **Jan. 2022 - Mar. 2023**
Software Engineering Intern

- Spearheaded the development of a Common Dispute Resolution System that streamlined communication with a CRM platform, automating ticket creation and reducing resolution time by over 60%
- Architected and delivered a micro-service enabling banks to seamlessly integrate the dispute resolution system into their mobile apps and websites, empowering users to report disputes effortlessly.
- Engineered a secure REST API service, allowing over 100 authorized users to fetch and selectively update data in a centralized database instantaneously, eliminating reliance on inefficient email communication.
- Followed rigorous SDLC methodologies, ensuring proper planning, comprehensive testing, and detailed documentation for each project.
- Played a critical role in maintaining, implementing vital security fixes, and establishing CI/CD pipelines using Docker and GitHub Actions for streamlined deployments.

Key technologies: *Java, Spring, PostgreSQL, GitHub Actions, Docker, Postman.*

TECHNICAL SKILLS

Languages: Java, Python, Javascript, HTML/ CSS, C/C++, Dart.
Frameworks: Spring, Django, Bootstrap, FastAPI, Flutter.
Libraries: JUnit, Mockito, JQuery, Numpy, BeautifulSoup.
Databases: SQL, PostgreSQL, MySQL, SQLite, NoSQL, MongoDB
DevOps: Windows Server, IIS Manager, Docker, Microsoft Azure, Heroku.
Developer Tools: Git, Postman, Swagger, IntelliJ, PyCharm, VS Code.

PROJECTS

Market Watch | *Java, Javascript; Spring boot, React, MySQL.* Feb. 2022 - Aug. 2022

- Developed a stock portfolio management app that integrates real-time Finance APIs to help users optimize and track their investments
- Used Spring Web to integrate the backend with the ReactJS front-end, Spring security to protect user data and enable secure authentication, along with Spring Data JPA to manage the MySQL Database.