

Hardik Kapadia (He/Him)

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EXPERIENCE

Software Engineer - Research Specialist

May 2024 – Present

University of Illinois College of Medicine

Chicago, IL

- Collaborated on an NIH-funded research project to develop a HIPAA-compliant system for efficiently managing and analyzing confidential patient health information.
- Developed a versatile form builder that enables users to design custom forms with diverse field types.
- Architected an asynchronous file upload system to handle large files, reducing user wait times by 60%.
- Created a high-performance EEG viewer to process, analyze, and visualize neurosurgical data, supporting real-time adjustments to amplitude, duration, time frames, montages, frequency filters and annotations.
- Engineered a robust security framework featuring secure password-based authentication, a strict content security policy, and granular role-based access control to sensitive data - achieving a security score of 125/100.
- Configured and deployed the application on Windows Server 2025 using IIS Manager.

Key technologies: **Python, JavaScript, Django, PostgreSQL, HTML/CSS, Git, IIS Manager.**

Software Engineering Intern

Jan. 2022 - Mar. 2023

Sahamati

Remote

- 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 microservices enabling banks to seamlessly integrate the dispute resolution system into mobile apps and websites, empowering 1000+ users to report disputes effortlessly.
- Engineered a secure REST API service that allowed over 100 authorized users to fetch and selectively update data in a centralized database, ensuring instantaneous delivery and reducing response times by 90%.
- Adhered to Agile methodologies to ensure proper planning, comprehensive testing, and detailed documentation, reducing project completion times by 30%.
- Implemented critical security fixes, and established a CI/CD pipeline for automated testing and deployment.

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

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, HTML/CSS, Dart, C/ C++, Bash.

Frameworks: Spring, Spring Boot, Django, Bootstrap, FastAPI, Flutter, React.

Libraries: JUnit, Mockito, Chart.js, JQuery, Pandas, Numpy, BeautifulSoup.

Databases: PostgreSQL, MySQL, SQLite, MongoDB (NoSQL), Hibernate, Django ORM, Spring Data JPA.

DevOps: Windows Server, Linux, IIS Manager, Docker, Kubernetes, Microsoft Azure, AWS, Heroku, GitHub Actions.

Developer Tools: Git, Postman, Swagger, IntelliJ, PyCharm, VS Code.

EDUCATION

University of Illinois at Chicago

Chicago, IL

Master of Science in Computer Science, GPA: 3.67

Aug. 2023 – May 2025

University of Mumbai

Mumbai, India

Bachelor of Technology in Computer Engineering, GPA: 3.5

Aug. 2019 – May 2023

PERSONAL PROJECTS

Unilink | Python, Dart; Flutter, FastAPI, Tensorflow.

Nov. 2022 - May 2023

- Led end-to-end development of a multi-platform social media management application featuring advanced analytics that enhanced users' online presence while reducing posting time by 65%.
- Refined development strategy through targeted user research, documentation, and strategic planning.

Market Watch | Java, Javascript; Spring boot, React, MySQL.

Feb. 2022 - Aug. 2022

- Developed a stock portfolio management application for real-time investment tracking.
- Implemented Spring Security to establish secure user authentication and data protection protocols.
- Leveraged Spring Data JPA for efficient database access and persistence with MySQL.