

NEERAJ KUMAR

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EDUCATION

Northeastern University

Sep 2024 – Current

Master's in Computer Science (Khoury College of Computer Sciences)

Boston, MA

- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Design in Java, Database Management

SKILLS

Languages: Python, Java, C, JavaScript, SQL, TypeScript, HTML, CSS

Tools/Technologies: ReactJS, MongoDB, MySQL, Git, JUnit, WordPress, XAMPP, Selenium, Figma, Framer, VS Code

WORK EXPERIENCE

Latitude Health

May 2024 – Aug 2024

Software Engineering Intern

- Developed an interactive dashboard to deliver real-time clinical data to assist in prior authorization. Successfully completed the development in 2 weeks.
- Designed 9+ modular React components (Tooltip, Status, Priority, etc.) enhancing modularity and reducing future dev time.
- Built 5+ responsive ReactJS web pages and collaborated in Agile sprints and participated in code reviews to ensure maintainability and modularity.

Wyoming Global Research World Pvt. Ltd.

Oct 2022 – Jun 2023

Web Development Intern

- Engineered a conversational chatbot using diverse front-end development plugins, conducting comparative across 3 models for ease of creation, usability, and responsiveness.
- Developed a specialized content-driven chatbot leveraging the ChatGPT plugin (AI Engine).
- Drove web and content development initiatives for educational institutions enhancing user experience.

Cognizant

Apr 2022 – Aug 2022

Software Intern

- Worked in a team of 6 to design and test the landing page of Cognizant, leveraging Java with Selenium for functional testing and utilizing HTML, SQL, Databases, CSS, and XPath for development and validation.
- Gained familiarity in SDLC, and contributed in development, testing, integration, and deployment phases across 3 projects over a duration of 3 months.

PROJECTS

Student Database Management System | Java, SQL

- Architected and implemented a Java/MySQL academic management system with a 15+ table relational database to model complex user relationships.
- Implemented a MVC architecture with 4 specialized controllers (Account, Course, Assessment, Student) delivering full CRUD functionality and robust error handling.

Wireless Sensor Networks | WSN's, Fuzzy Logic, Matlab

- Designed and demonstrated an efficient routing protocol for Wireless Sensor Networks (WSN's) using Fuzzy Logic to increase efficiency of the network. Achieved improvements in energy consumption (13%) and number of alive nodes.
- For the above project, co-authored a research paper titled [Fuzzy-Based Hierarchical Routing Protocol for Wireless Sensor Networks](#) published in the Springer textbook *Sustainable Computing*.