

# PARTH TAWDE

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## EDUCATION

University Of Illinois Chicago (UIC)

August 2019 - May 2024

**Master of Science in Computer Science, GPA: 3.71/4.00**

- Coursework: Web Security Application Development, UI/UX Research Methods, UI Design, Natural Language Processing

**Bachelor of Science in Computer Science, GPA: 3.63/4.00**

- Coursework: Data Structures, Database Management System, Data Analytics/ Visualization, Object-Oriented Programming

## SKILLS

- **Language/ Framework**: JavaScript, C, C++, C#, Java/JavaFX, Python, React, Node.js, Express.js, SQL, Matplotlib, Kotlin, F#, Pandas
- **Technologies/ Tools**: Linux, Kubernetes, Microsoft Teams, VS Code, Eclipse, Maven, Jupyter Notebook, Git, GitHub, Android Studio

## PROJECTS

**Memories Project**

February 2023 - March 2023

Technologies Operated: **MongoDB, Express, React, Node.js, RESTful API, Redux, Visual Studio Code, DOM**

- Led the creation of a social media platform, using the MERN stack and applying MVC principles for the backend
- Added Firebase to authenticate users using secure JSON Web Tokens
- Implemented comprehensive backend features with Node.js and Express.js, including post management
- Crafted a dynamic user experience using React and Redux, focusing on real-time interactivity
- Focused on REST API architecture and effective state management to ensure a smooth and fast web application

**Language Omegle**

August 2023 - December 2023

Technologies Operated: **React, Express, Node.js, Twilio, Azure Speech To Text API, Azure Translator Text API, Socket.IO**

- Created a video calling app using React and Express, integrating Twilio API for seamless communication
- Implemented real-time multilingual translation leveraging Azure Speech To Text and Azure Text Translate APIs
- Optimized back-end scalability and management using JavaScript, tailored for efficient server handling
- Utilized Socket.IO for efficient front-end to back-end connectivity, improving data flow and responsiveness

**Connect 4**

January 2021 - February 2021

Technologies Operated: **Java/JavaFX, Eclipse, Maven, JUnit 5**

- Developed front-end and back-end code for a multi-threaded, real-time Connect 4 multiplayer game, demonstrating robust problem-solving and critical thinking
- Prepared a UML class diagram to design the basic architecture of the application
- Rigorously tested the application using JUnit 5 automated tests, collaborating remotely via Zoom to ensure smooth gameplay and functionality, demonstrating dedication to project completion

**Hospital Management System Database Design and Implementation**

March 2023 - April 2023

Technologies Operated: **MySQL Workbench, MySQL, Triggers**

- Designed and implemented an ER diagram and relational database for a comprehensive hospital management system
- Optimized advanced SQL queries, triggers, and stored procedures to automate patient management and billing processes

**App Review Analyzer**

January 2023 - April 2023

Technologies Operated: **Python, Scikit-Learn, NLTK, Matplotlib, Seaborn, GitHub, Pandas, Jupyter Notebook**

- Collaborated with a team of five to scrape and transform 30,000 Facebook app reviews from Google Play Store
- Conducted sentiment analysis and Latent Dirichlet Allocation topic modeling, identifying 5 key review themes
- Enhanced review quality by validating valuable reviews (thumbs-up count) and addressing non-informative content

**311 Services Requests - Visualizations and Visual Analytics**

August 2023 - December 2023

Technologies Operated: **Pandas, Vega-Lite, JavaScript, Python, HTML, CSS, Jupyter Notebook, Git, GitHub**

- Architected a web-based data visualization system with JavaScript and Vega-Lite, creating almost 30 visualizations and integrating interactive techniques for enhanced data insights

## WORK EXPERIENCE

**Computer Science Department, UIC, Chicago, IL**

September 2021 - May 2023

*Undergraduate Teaching Assistant*

- Assisted students in debugging and optimizing code, enhancing their understanding of programming and improving coding skills
- Facilitated almost 40 lab sessions focusing on algorithmic thinking and problem-solving in object-oriented programming, contributing to a steady growth in student performance in coding assignments

**QA-Mentor Software Testing Expert Company, Mumbai, India**

May 2021- August 2021

*Software Quality Assurance Engineering Intern*

- Collaborated in an Agile environment to enhance the CertCentral platform, conducting software testing and resolving critical bugs for optimal functionality
- Revamped User Interface template by implementing a user-centric design approach, resulting in a 30% improvement in user navigation efficiency and a 25% increase in user engagement metrics

**Learning Technology Solutions, UIC, Chicago, IL**

August 2023 - May 2024

*Client Support Specialist*

- Designed and deployed interactive digital content using Panopto/ Echo 360 for Blackboard, enhancing student engagement
- Collaborated with over 10 departments to customize courses, improve instructional quality, and support educational needs

**New Students And Family Programs, UIC, Chicago, IL**

May 2022 - January 2023

*Orientation Leader*

- Developed communication, leadership, and time management skills by engaging with over 300 students in orientation programs, delivering presentations, and participating in student panels to answer questions, enhancing public speaking