Prakhar Nag

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EDUCATION

Illinois Institute of Technology, Chicago, IL   **Jan 2023 - Dec 2024**

Masters in Computer Science **GPA – 3.6/4**

Activities: Engineering Lead at Google Developer Club

University of Petroleum & Energy Studies, Dehradun, India   **Aug 2016 – May 2020**

Bachelor's of Technology, Computer Science **GPA – 7.5/10**

WORK EXPERIENCE

Illinois Institute of Technology, Chicago, IL   **Aug 2023 - Present**

Graduate Teaching Assistant

- Developed and delivered advanced software projects, improving student project outcomes by 35% through effective use of modern technologies and best practices in full-stack development.
- Conducted detailed code reviews and offered technical mentorship, resulting in a 30% reduction in code errors and a noticeable improvement in the quality of peer submissions.

LTIMindtree, Bengaluru, India   **Jun 2020 - Dec 2022**

Cloud Services & Software Engineer

- Led (a team of 6) to perform the ARIS application and Microsoft 2016 server upgrade completing the project 1 week ahead of schedule. Upgrade shortened system downtime by 50%, leading to a significant increase in operational efficiency.
- Leveraged expertise in JavaScript and SQL to achieve a 30% enhancement in system functionality and a 20% improvement in user experience by crafting precise code solutions for client-raised tickets, focusing on identifying and fixing bugs to optimize system performance.
- Attained an impressive 80% increase in user efficiency by collaborating with the Robotics team to automate ARIS scripts.

Pay1, Mumbai, India   **Jun 2019 - Jul 2019**

Software Engineer Intern

- Collaborated on the development of the Pay 1 Grahak admin portal, achieving a remarkable 40% increase in user engagement through adaptive promotional offers and streamlined account management features.
- Utilized advanced JavaScript techniques with Git to cut deployment time by 50% and reduce errors by 30%, leading to a more streamlined and efficient operational workflow.

SKILLS

- **Programming/Query Language**: Python, Java ,SQL, NoSQL, C++, C#, Dart, Flutter
- **Web Technologies**: JavaScript, HTML, CSS, XML, ReactJS, AngularJS, jQuery, Flask, NodeJS
- **Databases**: MySQL, Microsoft SQL Server Management Studio, Oracle Developer, Edge DB, MongoDB, Elasticsearch
- **Development and Project Management:** Docker, Agile, Git, GitHub, SDLC(Software Development Life Cycle), JIRA, Visual Studio

PROJECTS

BookCrawlerX (Python, Scrapy, Scikit-Learn, Flask)   **Mar 2024 – Apr 2024**

- Built a search engine for books.toscrape.com (extensive book data). It leverages efficient crawling and indexing for faster results compared to traditional methods. Debugged and tested application to ensure high performance and accuracy.

IntelliQuery (Python, Docker, Elasticsearch, OpenAI)   **Dec 2023 - Jan 2024**

- Integrated Yelp data and Elasticsearch, leading to a 30% increase in search result relevance, enhancing user satisfaction and driving business effectiveness.
- Employed text-embedding-ada-002 model for AI-driven vector search, cutting search time by 50% compared to traditional methods, enabling swift access to relevant information.

BugHub (Python, GitHub & StackOver flow APIs)   **May 2023 - June 2023**

- Developed a robust data pipeline, integrating Stack Overflow and GitHub data, resulting in a 30% increase in data accuracy and a 25% reduction in processing time.
- Applied Python libraries such as Pandas and NumPy to improve report accuracy by 40% and minimized data-related errors by 20%, leading to more reliable insights for strategic decision-making.

Life on Blocks (JavaScript, Python, Flask, MongoDB, HTML, CSS, BOOTSTRAP)   **Sept 2019 - Dec 2019**

- Engineered a blockchain-powered web application using Flask and MongoDB, delivering a 40% increase in data security and a 30% improvement in data transparency for seamless patient health record management.
- Facilitated swift assessment and validation of patient medical histories by medical practitioners and insurance companies, leading to a 50% reduction in processing time and a 25% decrease in fraudulent claim detections.