Prakhar Nag

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WORK EXPERIENCE

Illinois Institute of Technology   **Chicago, IL**
Graduate Teaching Assistant   *Aug 2023 - Present*
- Architected and implemented complex software solutions utilizing Elasticsearch, Yelp APIs, Docker, OpenAI, EdgeDB, and React showcasing expertise in full-stack development and advanced data handling.
- Provided comprehensive code reviews and technical guidance to peers, fostering a culture of continuous improvement and high-quality code standards.

LTIMindtree   **Bengaluru, India**
Cloud Services & Software Engineer   *Jun 2020 - Dec 2022*
- Led a team of 6 members during the ARIS application and server upgrade.
- Delivered a 30% enhancement in system functionality and a 20% improvement in user experience by leveraging expertise in JavaScript and SQL. Handled tickets on service now platform raised by clients.
- Achieved an impressive 80% improvement in user efficiency by demonstrating leadership and collaboration skills, leading a cross-functional effort with the Robotics team to automate ARIS scripts.
- Crafted precise code solutions, resolving intricate issues within ProArc and ARIS applications.

Pay 1   **Mumbai, India**
Software Engineer Intern   *Jun 2019 - Jul 2019*
- Engineered the Pay 1 Grahak admin portal, driving a remarkable 40% increase in user engagement through adaptive promotional offers and streamlined account management features.
- Leveraged advanced JavaScript techniques and efficient version control strategies with GitHub, deployment time was slashed by 50% while errors were minimized by 30%, ensuring a smoother and more efficient operational workflow.

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.
- Implemented advanced data preprocessing techniques, leading to a 40% improvement in report accuracy and a 20% reduction in data-related errors, enabling more informed strategic decision-making.

Life on Blocks (Python, Flask, MongoDB, HTML, CSS, BOOTSTRAP)   **Sept 2019 - Dec 2019**
- Engineered a blockchain-powered web application with Python's Flask framework and MongoDB database, 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.

SKILLS

Programming/Query Language: Python, Java ,SQL, NoSQL, C++, C#
Web Technologies: JavaScript, HTML, CSS, React, Flask, Node.js
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), Visual Studio

EDUCATION

Illinois Institute of Technology   **Chicago, IL**
*M.S. Computer Science **GPA – 3.6/4***   *Jan 2023 - Dec 2024*
Activities: Engineering Lead at Google Developer Club