Harshit Rakesh Shiroiya

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WORK EXPERIENCE

Software Engineer - II, *Medpace, Inc.* ⧉   Jun 2023 – present │ Cincinnati, USA
- Developed and maintained 3 clinical software applications using **Angular, C#, .NET Core, Entity Framework, and Microsoft SQL Server** in a **MVC architecture**.
- Reduced API response time by **35%** by implementing **GraphQL, RESTful API** for faster client-server communication.
- Optimized scalability and reduced infrastructure costs by **35%** by migrating applications to **Azure cloud services** and managing deployments via **Github workflows** and **CI/CD**.
- Refactored a monolithic application into a **microservices** and **micro-frontend architecture**, improving scalability by **40%**, deployment speed by **30%**, and enabling parallel feature development.
- **Led UI development** initiatives for 3 major products, improving user experience scores by **25%** and ensuring consistency across modules while mentoring 2 junior developers on frontend development.
- Actively participated in **sprint planning**, achieving **99%** alignment with business owners through effective communication and prioritization of deliverables.

Software Engineer - Research Assistant, *Indiana University* ⧉   Aug 2022 – May 2023 │ Bloomington, USA
- Architected a distributed data ingestion pipeline integrating Twitter, YouTube, and Reddit APIs to process high-volume social sentiment data for 164 distinct entities.
- Cleaned, parsed, and segmented tweets to analyze word frequency and identify emotion-related hashtags.

Software Engineer Intern, *PERQ* ⧉   May 2022 – Dec 2022 │ Indianapolis, USA
- Ensured **WCAG 2.1 compliance** to improve web accessibility for users with disabilities.
- Built **backend services** with **.NET (C#)** and developed responsive **frontends** using **Angular.js, Vue.js, and HTML**.
- Managed **PostgreSQL** for storage and backups, and used **Memcached** for high-speed caching.
- Utilized **AWS S3** for static content, **RDS** for PostgreSQL hosting, improving scalability by **30%**.
- Automated and streamlined **CI/CD** piplines with **AWS CodePipeline** and **Codebuild**, reducing release cycles by **25%**.

Data Analyst Intern, *V.H Lakhi Group*   Dec 2019 – Feb 2020 │ Mumbai, India
- Analyzed **2018-19 sales data** using **Python** to identify key trends and patterns for the sales department.
- Implemented **6 machine learning algorithms**, improving insights and helping boost **future sales by 18%**.

EDUCATION

MS in Computer Science, Indiana University, *(CGPA: 3.7/4.0)*   May 2023
  Coursework: Software Engineering, Advance Database, Applied Algorithms, Elements of AI, System Analysis and Design

Bachelor of Engineering in IT, University of Mumbai, *(GPA: 3.8/4.0)*   Jun 2021
  Coursework: Operating Systems, Software Engineering, Internet Programming, Advanced Data Structure Algorithm.

PROJECTS

Distributed Health Telemetry System, *Node.js, React, MongoDB, Angular, AWS*
- Designed a health wellness system to monitor an individual's everyday activity.
- Implemented registration with authentication using **OAuth 2.0**, search, recommendation, video-streaming, chatting, subscription, rating and review functionalities in the system.
- Leveraged react router to prevent full page reloads, reducing loading of application by **27%**

Course Outcome Attainment System, *PHP, HTML, CSS, JavaScript, MySQL*
- Developed an **automated system** to analyze course attainment, ensuring compliance with board standards and improving **continuous quality assessment**.
- Processed and utilized data from **1,600+ students and faculty** for performance evaluation and reporting.
- Authored and presented a paper in ICSCSP, 2020 and published it in JETIR ⧉ journal.

SKILLS

Programming Languages: — Python, JavaScript, Java, C, TypeScript, C#, **Web Technologies and Frameworks:** — React, Node.js, Angular.js, Express.js, Typescript, Django, .NET, PHP, CSS, Bootstrap, HTML5, Flask, RESTful web services, JSON, AJAX, XML, jQuery, Selenium, **Database and Storage:** — MongoDB, Amazon RDS, PostgreSQL, Amazon S3, DynamoDB, MySQL, **DevOps and Tools:** — CI/CD, Jenkins, Docker, AWS, Redis, JIRA, GIT, Postman, Azure, Crucible, Bitbucket, GitHub