SHIVAM MAHAJAN

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EDUCATION

Rochester Institute of Technology, Rochester, New York   *August 2020 – August 2023*
Master of Science in Computer Science   *GPA: 3.79/4.0*
Relevant Coursework: Object-oriented Programming, Algorithms and Data Structures, Web Technology, Distributed Systems, ML
  - Graduate Teaching Assistant: Cloud Software Systems

KJ Somaiya College of Engineering, University of Mumbai, Mumbai, India   *August 2016 – October 2020*
Bachelor of Technology in Computer Engineering

PROFESSIONAL EXPERIENCE

Software Engineer Intern | **Mindex** | Rochester, New York   *January 2022 – August 2022*
- Developed a billing page using React.js, Python and AWS, leading to a **30% increase** in user bill management efficiency
- Strengthened login security utilizing **C# and SQL**, reducing unauthorized access attempts by 40% and enhancing user trust
- Created a Dashboard Web App employing **React.js, Python, AWS** API Gateway, Lambda and RDS, empowering client to gain actionable insights from medical data
- Resolved a deployment issue, demonstrating strong critical thinking and problem-solving skills, ensuring 100% reliable email delivery and enhancing user communication
- Collaborated with a team of **11 developers following Scrum-based Agile Development process**, conducting code reviews, debugging, testing and reporting software bugs thereby optimizing software performance and user experience

PROJECTS

Blog Web App — Full Stack | *React.js, Node.js, Express, SQL and Docker*
- Developed a Blog Web App with 6 categories, enabling users to read, write and publish blogs
- Performed secure user authentication with JSON Web Tokens (JWT), incorporated blog editing and deletion functionality and ran it in Docker for easier deployment
- Deployed **MySQL database** to securely store and manage analytical data pertaining to blogs and users

Email Deletion Web App | *HTML, CSS, JavaScript, Flask, AWS, Docker and Gmail API*
- **Led a development of Flask Web App** to simplify the process of email deletion to minimize carbon footprint
- Utilized AWS DynamoDB to store data and completed beta testing with 20 users with positive response
- Created a Chrome extension that pops up on Gmail, increasing the user retention by 20%

Ride Cost Share Web App — Full Stack | *React.js, Node.js, AWS API Gateway, Lambda and RDS*
- Programmed a React.js Web App to help users split car ride cost easily
- Leveraged **Cloud's Relational Database in Lambda employing Node.js** to attain fast retrieval of data
- Consolidated 8 REST APIs into 1 utilizing a proxy AWS API Gateway to achieve improved performance

Books Selling Web App – Full Stack | *HTML, CSS, JavaScript, PHP, SQL, and Ajax*
- Managed development of a Web App, facilitating purchase and sale of used books
- Implemented a chat feature in the App enabling buyers to easily get in touch with sellers
- **Integrated product filter, payment gateway** into the App and tested it with 15 users

Movies Review Web App – Full Stack | *React.js, Bootstrap, Java (Spring Boot) and MongoDB*
- Developed a Web App allowing users to browse movies and share reviews
- Implemented Material UI in React.js and utilized MongoDB to store movies and reviews

PUBLICATIONS

Gaming Assistant App for the Physically Disabled   *August 2020*
- Implemented an Android App to **assist physically disabled people** to play games using their voice and published the research paper in International Research Journal of Engineering and Technology (IRJET Volume 7 Issue 8)

CERTIFICATIONS

AWS Certified Solutions Architect – Associate   *August 2022*
AWS Certified Cloud Practitioner   *April 2022*

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C#, C, C++, SQL
Web Technologies: React.js, Node.js, HTML, CSS, Flask, Angular, React Native, Flutter, PostgreSQL, NoSQL
Frameworks & Tools: Spring Boot, Git, Docker, MongoDB, Express, AWS (EC2, S3, Lambda, API, RDS, DynamoDB)