

SHAFKAT KABIR

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EXPERIENCE

CSE Capstone Experience | **United Airlines**

Fall 2023

- Planned workflow by managing and scheduling product development through clear communication with clients to deliver functional software to meet client targets.
- Developed new Application Programming Interface (API) using Python's Flask library, DynamoDB database in Amazon Web Services (AWS), and an AI model using Python's PyTorch library to automate audits.
- Employed AWS EC2 for computing, S3 buckets for asset storage, and DynamoDB for database management, demonstrating proficiency in distributed, multi-tiered systems.
- Reduced auditing time from 6 hours to 15 minutes by solving complex data processing challenges, resulting in estimated annual savings of \$7000 in human resources.

Software Engineer Intern | **Rocket Mortgage**

Summer 2023

- Created a loan generator tool to streamline internal application testing, ensuring efficient and scalable software solutions.
- Mastered and enhanced development processes, and code base, to create ASP.NET REST API to communicate with existing internal services for loan data.
- Worked with a team of engineers to aggregate all collected data into a usable test loan reducing testing time by 97%.
- Applied Agile software development practices to analyze business requirements and outline proposed solutions at Rocket Mortgage.

Software Engineer Intern | **Rocket Mortgage**

Summer 2022

- Collaborated with a team to design and develop a full-stack web application to track underwriter accuracy, rapidly mastering new technologies through continuous mentorship.
- Spearheaded the development of an API using ASP.NET, ensuring accurate calculations and optimal response times.
- Utilized object-oriented design concepts and common design patterns to develop robust and scalable systems.
- Implemented best practices to improve team coding culture related to quality and security.

EDUCATION

Michigan State University | *B.S., Computer Science*

April 2024

- CS GPA: 3.83
- Secondary Concentration in Business
- Dean's List
- Relevant Coursework: Foundations in AI, Algorithm Engineering, Web Development, Data Mining, Database Systems, Object Oriented Software, Computer Architecture and Organization

TECHNICAL SKILLS

- C, C++, Python, ASP.NET, HTML, CSS, JavaScript, GIT, Terraform, React.JS, Angular, Docker, AWS Cloud Services, Kubernetes, PostgreSQL, MySQL, PyTorch, Tensorflow, Assembly Programming, Matlab, REST, NodeJS, Linux, JSON, Typescript

LEADERSHIP

SpartaHack 9 | *Operations Lead*

- Led a team of 7 to plan and execute Michigan's largest hackathon, ensuring all project milestones were met on time and within budget.
- Managed project ideation and delegation, enhancing team efficiency and productivity.
- Oversaw event logistics, coordinated internal activities, and established the event schedule to ensure smooth operation.
- Defined competition tracks, judging criteria, and the overall event structure, resulting in a successful and well-organized hackathon.

Michigan State University | *Undergraduate Learning Assistant (ULA)*

- Taught Object-Oriented Software design by first achieving a level of proficiency to teach within 3 months.
- Provided support for courses in Calculus 1, Introduction to Python, and College Algebra, helping students understand complex concepts.
- Graded assignments in strict adherence to provided rubrics, ensuring fair and consistent evaluation.
- Guided students through their learning processes, fostering a collaborative and supportive learning environment.