

MAHERA KHATOON

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SUMMARY:

Results-driven Software Engineer with hands-on experience in full-stack development, cloud computing, and agile methodologies. Passionate about designing, developing, and optimizing scalable applications. Adept at collaborating in cross-functional teams to deliver high-quality software solutions.

EDUCATION:

FAIRLEIGH DICKINSON UNIVERSITY Teaneck, NJ

Master of Science – Computer Science (May 2025)

WORK EXPERIENCE:

FAIRLEIGH DICKINSON UNIVERSITY, Teaneck, NJ

Computer Lab Assistant

August 2024 – May 2025

- Provided technical support to 100+ students and faculty, troubleshooting hardware/software issues to minimize downtime.
- Installed, configured, and maintained lab systems and specialized software, ensuring 99.9% system uptime.
- Guided students in using specialized software, including programming tools, data analysis platforms, and design applications, offering hands-on support and troubleshooting.

Graduate Teaching Assistant

January 2024 – May 2025

- Assisted in AI, Machine Learning, Data Structures & Algorithms, Java, and Python courses, mentoring 50+ students per semester.
- Provided one-on-one tutoring, improving student problem-solving skills by 20%.
- Graded and reviewed assignments while helping students debug and optimize Java/Python projects.

AICTE, Hyderabad, India

October 2021 – December 2021

AWS Cloud Intern

- Completed advanced cloud computing training, gaining hands-on experience with AWS services, including EC2, S3, Lambda, and CloudFormation, to design, deploy, and manage cloud-based applications.
- Worked with mentors to design scalable, secure cloud solutions, optimizing performance and reliability within the AWS ecosystem.
- Capstone Project: Developed a scalable platform for building, testing, deploying, and operating Docker applications using AWS services like EC2 and CloudFormation, ensuring high availability and automated deployment workflows.

VOLUNTARY EXPERIENCE:

FAIRLEIGH DICKINSON UNIVERSITY, Teaneck, NJ

Java Tutor

January 2024 – May 2024

- Conduct weekly tutoring sessions to enhance students' Java proficiency, focusing on OOP concepts, algorithm optimization, and real-world coding challenges through custom exercises.

CSEOP Coordinator

September 2024 – November 2024

- Organized program activities and developed teaching methods that integrated computer science and engineering concepts.
- Led interactive workshops on mobile app development, enhancing participant knowledge by 30%.

PROJECTS EXPERIENCE:

Vocabulary Builder Web App | React.js, Supabase, Web Speech API, HTML5, CSS3

- Developed an interactive vocabulary learning app that delivers 10 new words daily using dynamic flashcards with meanings and audio pronunciations. Implemented features like progress tracking, and learning history.
- Designed an intuitive, responsive UI with React.js and CSS3, utilizing Flexbox and Media Queries for a smooth user experience across devices.
- Integrated Supabase for real-time data storage and retrieval, and used the Web Speech API to enable accurate audio pronunciation.

Employee Handler Website | ASP.NET Core, C#, JavaScript, MySQL, Bootstrap

- Built CRUD operations for employee management using C# with ASP.NET Core MVC, incorporating role-based access control.
- Designed a responsive UI with Bootstrap and JavaScript, enabling real-time updates and advanced search functionality.
- Optimized MySQL queries and implemented automated performance review notifications for improved efficiency.

SKILLS:

- **Programming Languages:** Java, Python, C#, JavaScript, TypeScript.
- **Web & Frontend Development:** HTML, CSS, PHP, Bootstrap, React.js, Node.js, Next.js, Express.js, REST APIs.
- **Backend & Databases:** ASP.NET MVC, Spring, SQL, MySQL, PostgreSQL, NoSQL (MongoDB, DynamoDB).
- **Cloud & DevOps:** AWS (Lambda, EC2, S3, DynamoDB), GCP, Docker, Kafka, Kubernetes, CI/CD Pipelines.
- **Tools & Frameworks:** Git, Agile, WordPress, Visual Studio, Microsoft Office (Word, Excel, PowerPoint, Outlook).
- **AI & API Integration:** OpenAI API, Cursor, Vercel v0.

CERTIFICATION:

- IBM Full Stack Software Developer (2023)