Umar Zaman

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PROFILE

- Computer Science student with a strong foundation in programming, cloud computing, and database management, proficient in tools such as React, Python, and JavaScript, with experience developing efficient, user-focused applications.

TECHNICAL SKILLS

- Proficient in React, REST/GraphQL APIs, and scripting languages (JavaScript, Python, Bash).
- Experienced with cloud platforms, including Google Cloud Platform (GCP) and AWS, focusing on storage systems, cloud infrastructure, and reliable solutions.
- Applied database technologies (MongoDB, PostgreSQL) and virtualization tools (VMware, VirtualBox) to design, deploy, and optimize applications, enhancing system efficiency and reliability.

EDUCATION

Honours Bachelor of Computer Science (Specialty in Cloud Computing)   September 2020 - Present
Sheridan College- Oakville, ON

- Specialized in cloud computing, software development, and data analytics through hands-on academic projects and practical coursework.
- Relevant coursework: Cloud Computing Essentials, Data Structures and Algorithms, DevOps Practices, IoT Security and Encryption, Software Engineering Principles.

EXPERIENCE

Cloud Engineer Intern   Feb 2025 - Present
Learning Mode AI- Toronto, ON

- Improved backend logging for services on AWS EC2, increasing CloudWatch filtering accuracy by 30% through structured logs tagged with user/session IDs using logrus.
- Developed and deployed a Chrome-based learning extension integrating cloud APIs, reducing manual study overhead by 40% through AI-driven video interaction.
- Built a multi-container Docker environment to simulate production-like cloud micro-services (ai-service, quiz-service), improving local test reliability and API integration speed by 25%.

Frontend Web Developer Intern   Mar 2024 - May 2024
Prabbis Consulting- Halifax, NS

- Developed and implemented functional responsive user interfaces for mobile, tablet, and desktop, including key pages such as signup, sign-in, and confirmation, using Next.js, TypeScript, React, and Tailwind CSS.
- Collaborated with designers and stakeholders using Figma and ClickUp, improving the design review process by 20% and ensuring the timely delivery of efficient applications across three platforms.
- Collaborated closely with a mentor and fellow intern to optimize the design workflow, enhancing development efficiency by 20% and improving UI consistency across key web pages.

PROJECTS

Greenalytics – Real-Time Environmental Analytics Dashboard   Mar 2025 - Present
Academic Project- Mississauga, ON

- Initiated and led the development of a cloud-native dashboard using React, Chakra UI, and Node.js/FastAPI, visualizing environmental impact across Canadian provinces and industries.
- Architected a modular Dockerized micro-service system handling 100+ simulated sensor events/minute, enhancing test-ability and accelerating local development setup time by ~50%.
- Integrated Redis for caching and Pub/Sub messaging, enabling near-instant alerting when emissions or waste thresholds are crossed.
- Built a basic forecasting engine leveraging time-series data to estimate emission trends, with planned ML deployment via AWS SageMaker for future enhancement.

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FocusFlow – AI-Powered Productivity App   Jan 2025 - Jan 2025
Hackville 2025- Mississauga, ON
- Led a 3-person team to develop FocusFlow, an AI-powered productivity app built within a 36-hour hackathon, leveraging React Native, Firebase, and Opening to help students break down assignments and stay organized.
- Built and guided the implementation of a custom OpenAI-powered parser in JavaScript to convert ChatGPT-generated study plans into interactive to-do lists.
- Directed integration of features, including a Pomodoro timer, mood-based tips, and a "Letter to Future Self," leveraging ZenQuotes API and Firebase. Tested with 5+ users to ensure seamless functionality.
- Resolved GitHub merge conflicts and streamlined version control, leading a 3-person team to ensure timely project delivery under high-pressure conditions.