Zubaer Milky

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EDUCATION

University of South Florida | GPA: 3.65/4.0   **August 2021 - May 2025**
Bachelor of Science in Computer Science w/ Minor in Entrepreneurship and Innovation in Business
Master of Science in Computer Science   **August 2025 - May 2027**

WORK EXPERIENCE

Student Government Computer Services   **September 2023 - May 2025**
Computer Assistant   *Tampa, FL*
- Diagnosed and troubleshoot 30+ network, printing, and technical problems per week
- Monitored functionality, security, and integrity of the printing service and computers' hardware, maintaining 99% uptime
- Provide quality customer service with general support for hardware and network connections to over 500 users a month

AkashBari Holidays   **May 2024 - August 2024**
Software Developer Intern   *Dhaka, Bangladesh*
- Built secure REST APIs in Python and designed relational schemas to support a payment gateway system integrating with external vendors for transaction authorization and capture
- Developed a distributed messaging layer using NATS to enable secure communication across microservices in a financial transaction pipeline
- Implemented retry logic in Python and SQL for payment workflows, reducing on-call interventions by 50%
- Created end-to-end testing infrastructure using Python, Docker, and Kubernetes to validate 50+ services, Kafka topics, and Temporal workflows, cutting manual QA effort by 20%

Danawi Corporation   **May 2023 - August 2023**
Software Engineering Intern (Platform and Data)   *Dhaka, Bangladesh*
- Assisted in Building a real-time, high-throughput ETL pipeline using Kafka and Spark on Kubernetes, processing 3B+ records/hour with fault-tolerant ingestion across distributed multi-node clusters
- Led the migration from a monolithic PHP system to a Spring Boot microservices architecture with REST APIs and JWT auth, improving security and reducing unauthorized access by 20%
- Designed a GraphQL gateway and event-driven microservices architecture, leveraging Kafka for async communication
- Deployed containerized services to Kubernetes across AWS and GCP, achieving 99.9% uptime and reducing system latency by 35% through gRPC, caching, and cloud-native load balancing

PROJECTS

Social Commerce Aggregator | Python, Playwright, FastAPI, PostgreSQL, Redis, Angular
- Built a data aggregation system to collect listings from Facebook Marketplace using headless automation with Playwright
- Implemented resilient scraping pipelines for dynamic content, enabling accurate extraction of product and pricing data
- Built a FastAPI backend with Redis caching, reducing database load and improving response times by 80%
- Designed a responsive Angular frontend with live updates and search filters for seamless product discovery

AI - Virtual Fitness Coach | React, Express, JavaScript, OpenAI API, Redis, PostgreSQL
- Led a 3-person Agile team to develop an AI-powered fitness coaching app with personalized workout plans
- Integrated LangChain to chain OpenAI API calls with user health data, enabling context-aware fitness recommendations
- Boosted user engagement with a modern, responsive React UI and real-time feedback
- Improved data sync speed by 35% through Redis caching and optimized PostgreSQL queries

Arduino Obstacle-Avoiding Robot | Arduino, Tinkercad
- Directed a team of 5, overseeing hardware integration, software programming, 3D printing components, and testing
- Achieved a 95% success rate in navigation by engineering a precise obstacle-avoidance algorithm using ultrasonic sensors
- Reduced development time by 15% by leveraging Tinkercad for rapid prototyping and design adjustments

LEADERSHIP

NSLS Honors Society - *Technology Workshops Lead*   **January 2024 - June 2024**
- Led monthly workshops, enhancing members' skills in coding, software development, and emerging technologies
- Collaborated with faculty and experts to create engaging content, increasing workshop attendance by 30%

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C++, C#, C, Go, TypeScript, SQL, NoSQL, AQL, HTML, CSS
Frameworks: React, Node.js, Express, Angular, Flask, Tailwind, GraphQL, Bootstrap
Tools: Git, Docker, Kubernetes, AWS, Azure, PostgreSQL, MongoDB, RabbitMQ, Firebase, Linux, Jira, Confluence, ArangoDB
Skills: Full Stack Development, REST APIs, DevOps, Cloud Computing, Database Design, Computer Architecture, Infrastructure