Md Mahbub Anam

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Education

North South University   Dhaka, Bangladesh
Bachelor of Science in Computer Science & Engineering (CSE)   2028 (Expected)
Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming,
Database Systems, Operating Systems, Computer Networks
Awards: NASA Space Apps Challenge (Regional Runners up and Global Nominee)

Experience

North South University   Dhaka, Bangladesh
ASE (Contractual)   June 2025 – Present

- Optimized legacy codebase, reducing system load time from **~7 seconds to ~200 ms (~97% performance improvement)**.
- **Developed and maintained custom Bash automation scripts** to parse and aggregate daily system logs, providing a streamlined overview of server health and security events.
- **Monitored production environment logs daily** to identify anomalies, leading to the early detection and mitigation of multiple coordinated cyber-attacks.
- **Proactively identified and patched critical Remote Code Execution (RCE) vulnerabilities** within university infrastructure, preventing potential data compromise and system takeover.
- Developed and deployed a **cross-platform mobile application** using Flutter for university students.
- Resolved **80+ critical production bugs, maintaining a 99.9% system uptime**.
- Contributed and maintained core university platforms including **admission system, student portal, management portal, and banking gateway** integration.
- Led system migration efforts to modern architectures, improving scalability and maintainability.
- Configured and managed **DNS records**, ensuring secure and reliable domain resolution.
- Migrated production websites and systems from legacy domains to new domains with minimal downtime.

Gaming Organization (Contract)   Dhaka, Bangladesh
Full-Stack Developer   January 2025 – April 2025

- Developed a real-time **live streaming scoreboard system** for competitive gaming broadcasts.
- Built responsive frontend interfaces using **React** and **Vite** for low-latency updates.
- Implemented backend services using **Express.js** and **Python** to handle live match data.
- Integrated real-time data pipelines to synchronize streaming overlays with gameplay events.
- Deployed and maintained a stable system for live tournament and broadcast use.

Diagno Tech-AI LLC   Remote
Backend Developer   July 2024 – January 2025

- Developed scalable backend systems using **FastAPI** for AI-driven applications.
- Designed and implemented RESTful APIs to support core application functionality.
- Containerized backend services using **Docker** to enable consistent and reliable deployments.
- Built and maintained internal dashboards for application monitoring and management.
- Integrated backend services with frontend dashboards and AI pipelines.
- Optimized API performance, reliability, and maintainability across systems.

Leadership & Activities

Moonton - Mobile Legends: Bang Bang   Remote
Community Admin / Project Manager   May 2021 – April 2024

- Managed a 50+ member remote content creation team.
- Moderated and supported local and online gaming communities.
- Coordinated community projects and engagement initiatives.
- Received in-game currency rewards for contributions.

Personal Projects

reverse_utils - Reverse Engineering Toolkit:
Developed a C-based reverse engineering toolkit for binary analysis and low-level system exploration.
kernel_xiaomi_sm8250_nethunter - Custom Android Kernel for MI 10T Pro:
Maintained and optimized a custom Linux kernel for Android (SM8250) to support Kali NetHunter and advanced security testing.
Project Secure IDS - Intrusion Detection System:
Built a shell-based IDS to monitor system activity and detect potential security breaches in real time.
MemoryAnalyz3r - Memory Analysis Tool:
Engineered a C utility for process memory inspection and anomaly detection to support low-level debugging and security audits.
Brain - Built and deployed a Telegram-based AI assistant using OpenAI's text-davinci-002 before ChatGPT was released, implementing stateful conversations, custom prompt handling, and real-time API integration.

Skills & Interests

Technical:
Languages: Java (Core/Enterprise), Python (Backend/Automation), C/C++ (Systems/Security), PHP (Performance Optimization), Bash. Familiar with: Rust, Go, Assembly.
Systems & Security: Linux Kernel development, Vulnerability Research (RCE discovery/patching), Threat Intelligence, Malware Analysis, System Performance Optimization**.**
Backend & Infrastructure: FastAPI, Express.js, PHP (CodeIgniter 3), Redis, PostgreSQL, MySQL, RESTful API & Microservices.
Cloud & DevOps: Google Cloud Platform (GCP), AWS, Azure, Docker, CI/CD Pipelines, Production Debugging, Git.
Frontend & Mobile: Flutter (Cross-platform), Next.js, Vite, React.

Others:
Language: Bengali (Native) • English (Fluent) • Hindi (Fluent)
Interests: Psychology and human behavior • Photography • Systems performance and reliability.