

Ashsmith Khayrul

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EDUCATION

Northeastern University

Sep. 2025 – Dec. 2028

B.S. in Computer Science and Business Administration

Oakland, CA

GPA: 3.91/4.0, *Dean's List*

Relevant Coursework: Programming Languages, Discrete Mathematics, Databases, Microeconomics, Accounting, Marketing

Upcoming Coursework: Artificial Intelligence, Object-Oriented Design, Finance, Business Statistics

TECHNICAL SKILLS

Languages: Python, JavaScript, Pyret, SQL (MySQL), Redis, MongoDB, HTML/CSS, PHP

Technologies: Node.js, Express, WordPress, REST APIs

Developer Tools: Git, Docker, Shell, VS Code, Visual Studio

Systems: Linux, macOS, Windows

EXPERIENCE

Northeastern University

Jan. 2026 – Present

Undergraduate Research Assistant

Oakland, CA

- Supporting a City of Oakland–Northeastern University partnership evaluating responsible AI adoption in local government, focusing on Microsoft Copilot's effectiveness and risks in scaling community support services.
- Analyzing IRB-approved survey and usage log data to assess how prompt engineering skills evolve with AI tool exposure and what drives user trust vs. over-reliance.
- Coding and labeling qualitative interview transcripts to surface themes around data privacy challenges and equitable AI use in the Oakland context.
- Conducting literature reviews and identifying AI product features to improve safety, equity, and usability for city government workflows.

Uniplex Host

Apr. 2024 – Present

Founder & Systems Engineer

Remote

- Built and operated a Docker-based hosting platform offering VPS, Minecraft server, and Discord bot hosting across U.S. nodes, with automated provisioning and billing integrations via WHMCS APIs enabling scalable service lifecycle management.
- Maintained **99.9% uptime** across all production services with **24/7 SLA-backed containers**, supported by Nginx reverse proxy configuration, real-time status monitoring, and automated recovery mechanisms.
- Managed multi-node Linux infrastructure with optimized compute and memory allocation, operating a full service suite including a game panel, web panel, status page, and documentation portal.

Anderson W. Clark Magnet High School

Sep. 2021 – Apr. 2022

Student Cafeteria Worker

Glendale, CA

- Verified student IDs and managed entry flow during lunch service to ensure orderly and efficient food distribution.
- Prepared and portioned food items, including plating entrees and replenishing hot food from warming stations, while adhering to strict sanitary protocols (gloves, hair covering).
- Assisted peers and staff in maintaining a safe, clean service environment throughout daily operations.

PROJECTS

AshBot | *Discord API, JavaScript, Node.js, MySQL, Redis*

July 2023 – Feb. 2026

- Architected and deployed a Node.js backend serving **1,200+ Discord servers** and **250,000+ users**, implementing event-driven asynchronous command handling for high-concurrency workloads.
- Built a broad feature suite including moderation, autoroles, giveaways, ticketing, suggestions, sticky messages, minigames, and free AI, with frequent updates and new features shipped based on community feedback.
- Designed an indexed MySQL data layer with Redis caching to reduce database load and improve response latency under peak traffic; migrated from a single-process deployment to a sharded, containerized Docker architecture on Linux VPS infrastructure.