August Ahmed

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SUMMARY

Aspiring Software Engineer with a background in math and computer science, skilled in Python, Java, C, and GoLang. Experienced in problem solving and collaborating with teams to work through challenges and deliver results. Looking forward to applying programming skills and technical knowledge to help create useful and innovative software solutions.

EDUCATION

Boston University, College of Arts and Sciences **May 2027**

BA, Mathematics and Computer Science

- **GPA:** 3.9
- **Achievements:** Dean's List
- **Coursework:** Algorithms, Computer Systems, Game Theory, Microeconomics

SKILLS

- **Mathematics**: Probability, Statistics, Linear Algebra, Abstract Algebra, Combinatorics
- **Programming**: Python, Java, C, Assembly, GoLang, Distributed Systems, Artificial Intelligence, JavaScript, Git, R Programming

WORK EXPERIENCE

Playa Bowls **Jun 2025 - Present**

Team Member *Boston, MA*

- Developed strong customer-facing communication and multitasking skills by assisting customers with their orders and managing multiple tasks during peak hours, resulting in smoother operations and improved customer satisfaction
- Worked with staff to improve processes, boosting team efficiency and reducing wait times.

PROJECTS

Pac-Man AI - Reinforcement Learning Agent | Repository **Oct 2025**

Boston Hacks

- Collaborated with teammate to build an AI agent that learns to play Pac-Man using Q-Learning in a custom Pygame environment
- Designed the reward system and state representation to help the agent learn efficient movement patterns through trial and error
- Visualized the training process with real-time performance graphs showing reward growth and improved decision-making

Raft Consensus Algorithm | Repository **Oct 2025**

- Built a fault-tolerant distributed system implementing the Raft consensus protocol
- Developed leader election, log replication, and recovery mechanisms

Interactive Blackjack Webpage **Dec 2024**

- Designed an HTML/JavaScript webpage featuring a playable blackjack game
- Implemented core gameplay logic and user interface components

LEADERSHIP EXPERIENCE

Theta Chi Fraternity **Jan 2024 - Dec 2024**

Recruitment Chair

- Expanded chapter membership by 35% through strategic outreach and relationship-building
- Coordinated twelve recruitment events and a digital marketing campaign

Walpole Track & Field **Nov 2022 - Jun 2023**

Captain

- Supervised 20+ athletes through practice, meets, and bonding events organized by myself
- Mentored many athletes, leading to skill development and team cohesion