Aniket Chaudhry

EDUCATION

Northeastern University   **Boston, MA**
Khoury College of Computer Science   September 2023 - Present
Candidate for Bachelor of Science in Computer Science, Concentration: AI   GPA: 3.9/4.0
Honors: CyberCorps Scholarship For Service*,* Khoury College Dean's List, Google Play Change The Game Winner
Relevant Coursework*:* Distributed Systems** | Engineering LLM Integrated Systems** | Foundations of Artificial Intelligence* | Object Oriented Design | Computer Systems | Database Design | Foundations of Cybersecurity

COMPUTER KNOWLEDGE

Languages/Frameworks: Java, C/C#, Python, SQL, Go, Rust, HTML/CSS, JavaScript, React
Tools/Methods: Git/Github, Gitlab, Jira/Confluence, Microsoft Office, AGILE/Scrum, AWS/Microsoft Azure

LEADERSHIP & WORK EXPERIENCE

Northeastern University – CS1200: First-Year Seminar Teaching Assistant   **September 2025 — Present**
- Mentoring 30+ first-year computer science students through weekly office hours and recitations.
- Assisting in grading assignments and guiding students on academic and co-op readiness.

General Dynamics Electric Boat, Groton, CT - Tactical Software Engineering Co-Op   **January 2025 — July 2025**
- Created a YAML-configurable tracing service in Go, driven by gRPC protos that links 100% of OTEL-standard spans across a declared pipeline via per-hop FIFO queuing and HTTP exporting.
- Added client-side proto-based batching for the tracing service, slashing gRPC traffic by 90% while delivering complete parent-child chains in Jaeger UI for real-time latency insights.
- Implemented exhaustive test suite, achieving 100% coverage for critical Rust fault detection modules, testing all conditional paths and redundancy logic.
- Adhered to system requirements, mission design documents (MDDs), and operational protocols while working within a security-controlled environment.

Satellite Development Club, Northeastern University - Program Lead & Software Engineer   **August 2023 – Present**
- Continuing development of project website (www.horizonsat.org) displaying the team's accomplishments and projects using Next.js, React.js, & Tailwind CSS; achieved a 40% increase in monthly visitors.
- Leading institutional collaboration with Amazon Web Services Ground Station to co-develop cloud-compatible satellite ground station software for streamlined communication with Northeastern University's planned TeraLink satellite mission.
- Delivering quarterly updates to NASA/Air Force Research Laboratory on project status for partnered satellites.
- Managing a team of 20+ students in developing 2 separate satellites to be deployed within 3 years.

Sprouts.ai, San Francisco, CA - Full-Stack Software Engineer Intern   **July 2024 – September 2024**
- Collaborated on developing a content management solution using Strapi and JavaScript to optimize the webpage-building process for company executives.
- Implemented a PostgreSQL schema hosted on Azure Database for PostgreSQL, scaling to handle an additional 5,000 daily queries with improved reliability.

Space Dynamics Laboratory, Albuquerque, NM - Mission Concept Intern   **May 2024 – July 2024**
- Assembled a comprehensive mission design document (MDD) and requirements verification matrix (RVM) to advance Northeastern University's planned sub-Terahertz satellite communication experiment.
- Operated and sent commands to AFRL's XVI satellite under a subject-matter expert (SME) to help facilitate mission objectives.

PROJECTS

Swarm Intelligence for Optimal Satellite Placement   **September 2024 - December 2024**
- Developed a satellite constellation placement model using swarm intelligence algorithms (Particle Swarm Optimization, Ant Colony Optimization) to optimize coverage and inter-object distance within example satellite constellations, including SpaceX Starlink's satellite network.
- Utilized publicly available Two-Line Element (TLE) data to model and distribute 60 satellites in dynamic, adversarial environments.

*   = Indicates graduate-level coursework
** = Indicates coursework currently in progress