Daksh Gautam

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EDUCATION

University of Maryland, College Park – College Park, MD   August 2024 – May 2027
Bachelor of Science in Computer Science | GPA: 3.46
STS Scholar | Minor: General Business | Spring 2025 Dean's List
Relevant Coursework: Compilers, Bioinformatic Algorithms, Web Application Development, Algorithms, Organization of Programming Languages, Introduction to Computer Systems, Applied Probability and Statistics I, Discrete Structures

PROFESSIONAL EXPERIENCE

National Institutes of Standards and Technology – Gaithersburg, MD   June 2025 – August 2025
Summer Research Intern
- Built an LLM-powered pipeline (Python, OpenAI, LLaMA) that extracted research methodologies from 1000 papers with 92% accuracy, accelerating Systematic Literature Reviews for 3,000 NIST scientists by reducing manual review time by 70%
- Designed a scalable SQLite database to store and index 10,000+ extracted quotes, causing 500% faster retrieval and analysis for 500+ research methodology trends

Army Educational Outreach Program – Silver Spring, MD   June 2024 – July 2024
Assistant Near Peer Mentor
- Taught 15+ hands-on STEM lessons to 200+ students aged 12–17, leading to high engagement (95% participation) and increased interest in STEM fields by 20% based on student surveys
- Collaborated with 10+ mentors to co-create a modular STEM curriculum that scaled across 7 sessions, resulting in a 25% increase in student engagement and a 30% improvement in lesson clarity, as measured through mentor and student feedback

National Institutes of Standards and Technology – Gaithersburg, MD   June 2023 – May 2024
Summer Research Intern
- Developed a JavaScript-based visualization tool used by 100+ physicists to interactively explore nanoscale material images, reducing analysis time by 50% and improving insight into material behavior
- Trained a deep learning segmentation model on 1,000+ manually labeled images, improving material boundary detection accuracy by 35% and facilitating more precise analysis of nanoscale structures
- Improved camera-LED synchronization by optimizing the timing and control signals using Arduino and Python, resulting in a 33% reduction in latency and enabling more accurate data collection

NanoBioFab – Frederick, MD   May 2022 – August 2022
Intern
- Engineered a scalable data storage solution using mySQL, PHP, JavaScript, HTML, and CSS, increasing data handling capacity by 3x while ensuring 100% compatibility with legacy systems
- Led and taught technical workshops for 15+ Sensor and Software Team members, resulting in greater codebase fluency, faster onboarding, and fewer support requests over a 3-month period

LEADERSHIP & EXTRACURRICULARS

Dream Dresses – *State Lead and Key Volunteer*   December 2022 – Present
- Organized collection and shipment of 1,500+ Indian party outfits to underserved children, boosting donations 40%

Academic Decathlon – *President*   September 2022 – May 2022
- Improved 20 students scores in regional academic competition by 20% by mentoring and teaching 10 school subjects

Technology Student Association – *President*   September 2022 – May 2022
- Taught foundational computer science concepts (e.g., programming, logic, algorithms) to high school students, and organized coding competitions that engaged 30+ participants with over 90% participation in each

PROJECTS

Eyes of Expression – *BitCamp Hackathon Project*   bitcamp2025.vercel.app
- Developed a browser-based painting app using real-time eye-tracking to control brush strokes, allowing hands-free digital art creation with 100% accessibility for non-mouse users

Group Painting Server
- Implemented multithreaded network programming in Java for real-time collaboration for multiple users on the same network to co-create an art piece, enhancing user engagement by facilitating seamless interactions

Two Player Games
- Developed a modular gaming framework in Java, enabling the integration of 10 different two-player games and increasing user session times by 30% through enhanced game variety

CERTIFICATIONS, AWARDS, AND SKILLS

Certifications: Cisco Switching Routing and Wireless Essentials, Amazon Web Services Academy, Cloud Foundations
Awards: Northeastern Academic Decathlon Math Competition Winner, Northeastern Academic Decathlon Economics Competition Winner, AP Scholar Award with Distinction
Skills: Java, Python, HTML, CSS, Javascript, PHP , mySQL, C++, C, x86, OCaml, Rust, R, Matlab, JavaScript, MongoDB, Node.js