# Tanmay Nerurkar

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## PROFILE SUMMARY

Motivated IT student with expertise in software development, computer networks, cybersecurity, and technical support. Set to graduate in May 2025 with President's List honors. Proficient in Python and Java with hands-on experience in developing innovative applications and resolving complex system issues. Certified in Google Cybersecurity Specialization and CRLA Level II, with demonstrated success in leading academic and professional projects.

## EDUCATION

**Bachelor of Science, Information Technology - Cybersecurity | The University of Toledo**                    **(Expected) May 2025**
**GPA 3.98** | President's List – Fall 23, Spring 24
Relevant Coursework: Computer and Network Security, Web Server Administration, Operating Systems, Database Management Systems, Software Design

## CERTIFICATIONS

**Google Cybersecurity Specialization (Coursera)**
- Hands-on training in cybersecurity tools, threat mitigation, and system monitoring.

**CRLA Level I & Level II Advanced Tutor (International Tutor Training Program Certification)**
- CRLA Level II certified with 20+ hours of training in tutoring strategies, communication, and ethics.

**CS50x - Introduction to Computer Science and Programming (Harvard University)**
- Developed a strong foundation in computer science and programming fundamentals, applied to projects like app development and process automation.

## SKILLS

**Programming Languages:** Python, Java, JavaScript, C++, R, MySQL, HTML/CSS
**Frameworks & Libraries:** Flask, LangChain, Selenium, Tkinter
**Databases & Cloud:** ChromaDB, MSSQL, SQL Server, Azure
**Cybersecurity & Networking:** Log Analysis, System Behavior Tracking, Threat Mitigation, Network Security, Group Policy, Active Directory, Cloud Networking
**Tools & Technologies:** Git, VS Code, Jupyter Notebook, SEIM, SCCM, VMWare VDI, Figma, Microsoft Office Suite, Arduino
**Key Strengths:** Problem-Solving, Team Collaboration, Communication, Adaptability

## PROFESSIONAL EXPERIENCE

**IT Specialist Level II, The University of Toledo** | Toledo, OH                    February 2025 – Present
- Engineered and maintained enterprise systems encompassing SCCM, VMWare VDI, Group Policy, and Active Directory ensuring compliance with security standards.
- Utilized expertise in Epic EMR and clinical IT systems to efficiently assist hospital and clinic staff with critical system access and functionality.
- Mentored and trained Level I Support Specialists, enhancing team productivity and knowledge retention, while also fulfilling all Level I responsibilities.

**IT Specialist Level I, The University of Toledo** | Toledo, OH                    April 2024 – February 2025
- Core member of a team that delivered IT support for over 10,000 users, specializing in Epic EMR, ticket management, and rapid clinical case resolution.
- Collaborated with 30+ teams to resolve critical system issues in under 30 minutes, minimizing disruptions to patient care and improving productivity.
- Supported over 12,000 Windows clients, 700 virtual desktops, and approximately 1,000 Mac clients across two campuses.

**Math Tutor, The University of Toledo** | Toledo, OH                    December 2023 – Present
- Tutored 25+ students weekly, leveraging learning strategies to enhance comprehension of complex math concepts.
- Achieved a 20% average improvement in student exam scores, demonstrating impactful teaching methodologies.

**Software Developer Intern, Sophtimize** | Mumbai, India                    January 2023 – July 2023
- Engineered a Python application automating content posting across multiple platforms and reducing manual effort by 70%.
- Designed and implemented Selenium WebDriver to navigate social media sites, bypassing API limitations.

## PROJECTS

**Retrieval-Augmented Generation Application**                    February 2025
- Developed an interactive document-based Q&A application using retrieval-augmented generation (RAG) with a Python backend.
- Implemented document chunking and vector storage in ChromaDB, retrieving the top 4 relevant chunks per user query for accurate responses from a local LLM.
- Built a Flask-based frontend with HTML, CSS, and JavaScript, enabling users to query uploaded PDFs in a chat interface.

**Portfolio Website & Custom Email Infrastructure**                    February 2025
- Built and launched tanmaynerurkar.com, showcasing projects, skills, and experiences in Software Development, Cybersecurity, and Cloud Computing.
- Configured contact@tanmaynerurkar.com, implementing SPF, DKIM, and DMARC for secure and reliable email communication.
- Managed DNS records, email authentication, and IMAP setup, ensuring seamless email delivery and multi-device access.

**Hospital Data Management System**                    November 2024
- Engineered an integrated healthcare management platform with user-friendly portals for patients and doctors, using JavaScript, HTML and CSS.
- Introduced a secure login system and real-time analytics dashboard, enabling better decision-making for hospital administrators.
- Designed and implemented a robust database architecture using MSSQL, ensuring seamless integration between front-end and back-end systems.

**Grade Management Application**                    April 2024
- Designed a desktop application using Python, SQLite, and Tkinter to streamline grade tracking for educators and students.
- Incorporated Object-Oriented Programming principles, error handling, and encapsulation to ensure a modular and maintainable design.
- Provided an installer script that automated deployment, including database setup and desktop shortcuts.

**Home Automation System**                    July 2019
- Created a complete home automation solution using Arduino and ESP32, with a Wi-Fi enabled app, remote control and people tracking capabilities.
- Integrated various sensors and boards, ensuring seamless communication via I2C protocol to improve home safety and energy efficiency.
- Crafted the software using C++ and Arduino frameworks, ensuring robust device control and sensor integration.

## VOLUNTEERING

**Treasurer, Institute of Electrical and Electronics Engineers at VSIT** | Mumbai, India                    January 2022 – July 2023
- Managed event budgets and finances with precision, ensuring optimal resource utilization for IEEE activities.
- Delivered an engaging keynote on Git/GitHub to over 100 attendees, breaking down complex concepts through live demonstrations and actionable tips.