

Eldad Tolla

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EDUCATION

Randolph College Lynchburg, VA
BS in Computer Science and Math (Double Major), Minor in Data Science and Engineering, GPA: 4.00 May 2027
Awards: Dean's List (Every Semester, 2023 – Present), NSF SUPER Scholar, CS + Math Most Outstanding Student, Academic MVP

TECHNICAL SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, C/C++, SQL, R
Frameworks/Tools: Flask, Node.js, React.js, AWS, Google Cloud, Docker, Git, Arduino, MATLAB, AutoCAD
Relevant Coursework: Advanced Programming, Data Structures, Algorithms, Discrete Mathematics, Linear Algebra, Software Development, Machine Learning

WORK EXPERIENCE

Computer Science Research Intern Lynchburg, VA
Randolph College August 2024 – Present

- Developed interactive data visualization tools using D3.js, creating a website that helps farmers optimize crop yields and researchers analyze agricultural trends
- Applied advanced data mining techniques to analyze USDA crop data and weather information

Engineering Assistant Researcher Lynchburg, VA
Randolph College August 2024 – Present

- Designed a voice-powered AI robot to enhance human-computer interaction
- Integrated real-time NLP algorithms and AI-driven responses, enabling the robot to understand and respond to complex voice commands

Computer Science and Math Tutor Lynchburg, VA
Randolph College August 2023 – Present

- Provide 250+ hours of personalized instruction in advanced calculus and data structures to 20+ students, improving average test scores by 15%
- Differentiate instruction to support individual student learning styles and meet academic goals

IT Help Desk Assistant Lynchburg, VA
Randolph College August 2024 – Present

- Provide technical support for 300+ students and faculty, resolving hardware/software issues within 24 hours
- Implement a new digital inventory management system, reducing equipment tracking time and improving response times to emergency calls

PROJECTS

Recall Royale (Flask, HTML, CSS, JavaScript, SQLite)

- Developed a dynamic content creation platform with Flask backend and React frontend, featuring real-time quizzes and collaborative study tools

Matrix Operations Library (Python, Linear Algebra)

- Develop a high-performance Python library for matrix operations, implementing optimized algorithms for multiplication, inversion, and eigen decomposition, reducing processing time for 1000 x 1000 matrices by 75%

Voice Aid AI-Powered Speech Recognition (NLP, Python)

- Engineer a machine learning-based speech recognition system, incorporating custom acoustic models and language processing algorithms, improving communication effectiveness by 60% for users with speech impediments
- Implement advanced NLP algorithms including LSTM and transformer models, increasing speech pattern interpretation

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Presidential Ambassador Randolph College, August 2024 - Present

- Represent the college at 20+ official events and student panels, enhancing the college outreach to prospective students, donors and alumni

Judiciary Chair Student Representative Randolph College, August 2023 - Present

- Mediated 30+ student conduct cases per semester, implementing restorative justice practices that reduced repeat offenses by 40% and improved campus community satisfaction

IT Advisory Committee Member Randolph College, August 2024 - Present

- Provide student perspective on technology needs and improvements to campus services, complete administrative tasks, and analyze data

ADDITIONAL INFORMATION

• **Activities:** ColorStack, CodePath, Society of Physics Students, SOS Children's Villages in Ethiopia | **Languages:** English, Amharic

