

NATHAN A. BEZABEH

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OBJECTIVE

Computer Science student with experience in AI, full-stack development, and data modeling, eager to apply research-driven problem-solving and software engineering skills to deliver scalable, real-world solutions in AI-driven Systems and data applications.

EDUCATION

Virginia Tech

B.S. in Computer Science

Blacksburg, VA

Expected Graduation: June 2027

- **Activities:** *ColorStack(Member); NSBE(Member)*

Northern Virginia Community College

A.S. in Computer Science

Alexandria, VA

June 2025

- **GPA:** 3.55/4.00
- **Honors:** *Graduated Magna Cum Laude, Deans List(3x), Presidential Scholar*

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, JavaScript, TypeScript, SQL, HTML/CSS, R
- **Framework/Libraries:** React.js, Next.js, Firebase, Berkeley Madonna, jGRASP
- **Tools:** VS Code, RStudio, Google Colab, AutoCAD, Inventor, Onshape, MATLAB, Git/GitHub
- **Concepts:** OOP, ML, Data Modeling, REST APIs
- **Certifications:** CodePath Intro to Cybersecurity, Oracle AI Foundation, Oracle Data Science Professional

PROJECTS

Modeling, Analysis, and Simulation to Study the Multi-Stage Dynamics of Student Debt

Arlington, TX

Research Intern

July 2024 – June 2025

- Developed Python-based simulations using discrete math and advanced calculus to model long-term policy impacts on student debt as part of the SURE-C² program.
- Presented research findings at NSF-supported forums and the 18th Annual Biomathematics and Ecology Education and Research (BEER) Conference.
- Designed reproducible Colab workflows enabling scalable experimentation and collaboration across multi-university research teams.

EXPERIENCES

CURE

Normal, IL

Computational Biology Researcher

June 2025 – August 2025

- Learned to optimize research workflows in RStudio and Google Colab, improving data analysis efficiency and reproducibility.
- Developed predictive models in R using random forest algorithms, enhancing homology prediction accuracy and supporting ongoing computational biology research.

HEADSTARTER AI

Remote

AI Fellow

June 2024 – November 2024

- Developed AI-driven applications, including a chatbot (Python, Rasa) and an inventory management system (React/Next.js), integrating full-stack and machine learning components.
- Designed, tested, and presented ML-powered projects that delivered real-time coding support and automated inventory updates, improving usability and demonstrating practical innovation.

CVS Pharmacy

Alexandria, VA

Certified Pharmacy Technician

May 2023 - Present

- Processed prescriptions and resolved insurance claims using advanced pharmacy management systems and automated dispensing technologies, increasing operational efficiency by 20% and ensuring seamless patient care in a fast-paced environment.

MEDICAL RESERVE CORPS (MRC)

Alexandria, VA

Volunteer

February 2024 – Present

- Organized community health initiatives and presented medical awareness trends using data visualization tools, increasing public engagement by 30% and supporting local stakeholders in promoting health and preparedness.