Salban Nithilaselvan

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EDUCATION

Westfield High School   GPA: 4.61/4.0 | Graduation: June 2026
- Relevant Coursework: AP Calculus BC (5), AP Computer Science A (5), AP Statistics (5), AP Computer Science Principles (5), AP Chemistry (5), AP World History: Modern (5)

Northern Virginia Community College   GPA: 4.0/4.0 | Non-Degree Seeking Enrollee
- Relevant Coursework: Calculus III, Linear Algebra

TECHNICAL SKILLS

Programming Languages: Java, Javascript, Kotlin, Python, R
Operating Systems: Linux (Arch, Red Hat, Ubuntu), Windows (8, 10, 11)
Tools and Utilities: CAD (Fusion 360, Inventor, FEA) CUDA, cuDNN, Git/Github, Pytorch, Tensorflow

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WORK EXPERIENCE

NRL Washington DC - *SEAP Deep Learning Intern*   Jun 2024 - Aug 2024
- Training generative AI to be used for planning and strategizing within military contexts under given constraints.

Dartmouth-Hitchcock Pathology and Lab Medicine - *Research Student*   Jun 2023 - Present
- Developing multimodal framework for predicting a multitude of colorectal cancer prognosis factors using histopathological and multi-omics datasets (PSB 2024)
- Researching tumor microenvironment interactions between histopathological data and DNA methylation deconvolved cell-type proportions

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ACTIVITIES

Chantilly Rocketry Club - *Electrical Team Lead*   November 2023 - Present
- Team focused on constructing and programming a solid motor rocket for the annual Battle of Rockets competition. Led team in developing and manufacturing a custom flight controller for launch, telemetry analysis, payload delivery and rover movements.

FIRST Robotics - *Software Team Lead*   October 2021 - December 2023
- Programmed robot to autonomously navigate and perform actions around a field using a custom-coded library, encoder-based odometry, OpenCV, April Tag detection, and a stereoscopic tracking camera

Scouting America - *Troop 20, Herndon*   September 2019 - Present
- 400+ service hours, served as Senior Patrol Leader, organized meetings, outings, and other events for 100+ scouts and their families

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RELEVANT HONORS

3x ACSL National Finalist | USACO Gold
3x 1st Place Medalist - Regional Virginia Science Olympiad
3x Medalist - State Virginia Science Olympiad
1st Place - Computational Biology - Fairfax County Science and Engineering Fair