AGNEYA THARUN
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EDUCATION

Poolesville High School (Class of 2025), Science, Math, Computer Science STEM magnet program
Weighted GPA: 4.88
Relevant coursework:

- Cyber Security (Trojan Engineering, Vulnerability Analysis, Network Exploitation)
- AP Micro and Macroeconomics
- AP Statistics (Data analysis, Probabilities, Graphs)
- AP Physics C (Mechanics, Electricity, Magnetism, Circuitry)
- AP BC Calculus (Differentiation, Integration)
- Networking (Router and Switch Configuration, Networking Architecture)

RESEARCH, PROJECTS, AND EXPERIENCE

Project Portfolio: https://www.agneya.me/, GitHub Account: https://github.com/Vort3xed

Thryving SaaS (Self-care and routine management app) - CTO
Co-founded a self-care SaaS website. Uses an advanced flowchart UX to allow users to build routines. Currently 2nd on Google search results through SEO optimization. Uses Next.JS, MongoDB, ReactFlow, and Tailwindcss. [https://www.thryving.app]

SchoolCentral SaaS (School schedule management app) - CTO
Created and developed a popular school schedule management app for my school district. 38k+ in the first two weeks of release. Uses Next.JS, MongoDB, and Tailwindcss. [https://schoolcentral.org]
Access a sample school schedule here: [https://schoolcentral.org/phs]

AVScan2Vec V2 – Intern at UMBC (University of Maryland, Baltimore County)
Designed, developed, and assessed a system of machine learning models that very accurately determine the true nature of malware. This model creates vector representations of malware and allows for models to use these vectors in downstream ML tasks (classification, clustering). Model trained using 40 million antivirus scan reports.

Multimodal Machine Learning Intern at CMU (Carnegie Mellon University)
Designed, developed, and created multimodal machine learning models for cardiac event prediction. Spent 6 weeks in person and worked with Turing award Dr. Raj Reddy.

Redbook-Pro (Digital SAT training app) – Passion Project
Designed, developed, and created a Python Flask application to server SAT questions to the user. Uses Firebase storage + authentication, Tailwindcss, JavaScript, Python, and Jinja. Developed a proprietary and complex algorithm to convert Collegeboard's question PDFs into easily manipulatable JSON files.

SKILLS & ABILITIES

- Core web development skills: React.js, Next.js, Bootstrap CSS, Tailwind CSS, HTML/CSS, Python Flask
- Programming skills: Java, Python, JavaScript, Machine Learning, MySQL, PostgreSQL, Linux, Arduino/Raspberry Pi
- Engineering skills: Fusion 360, 3D Printing,
- Cyber security skills: Web penetration, network penetration, data forensics, cryptography, Trojan engineering, Cisco router/switch configuration

RELEVANT AWARDS & HONORS

- USACO (USA Computing Olympiad) platinum qualifier (top 5%)
- CyberPatriot platinum qualifier
- Blue Ocean Entrepreneurship – Top 100 Project (top 3%)
- ACSL (American Computer Science League) Gold Medalist (Only 17 in the nation received one)
- National Stem Challenge Champion (150 selected from the nation)
- Coca Cola Semi-Finalist (top 1% of all applicants)