Surya Somayyajula // saisoma123.github.io

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Education

University of Wisconsin-Madison   **Madison, Wisconsin**
B.S. in Mathematics and Computer Sciences, GPA: 3.615/4   *September 2021 − May 2025*
Relevant Coursework: Programming II (CS 300), Discrete Mathematics (CS 240)
Extracurriculars: Undergraduate Projects Lab and Free and Open Source Software Club

Herndon High School   **Herndon, VA**
Advanced Diploma, GPA: 4.27/4   *August 2017 − June 2021*
Relevant Coursework: AP Computer Science A, Advanced Computer Science AB, Robotic Systems 1, Web Development, Cybersecurity, AP Calculus BC, Multivariable Calculus, Linear Algebra, AP Statistics
Awards: AP Scholar 2019, AP Scholar with Distinction 2020
Extracurriculars: Computer Science Club (Co-Founder) and Pedagogical research (literature review of learning modalities, wrote custom quiz software)

Polygence
                                                                                     June 2020 − present
Working with Nathan Lambert, a Ph.D. student at the University of California, Berkeley, on a machine learning-based prosthetic hand prototype.

NASA Virginia Space Consortium
                                                                             December 2018 − June 2020
Completed the Virginia Space Coast Scholars program and dual enrollment at Thomas Nelson Community College through the Virginia Aerospace Science and Technology Scholars program.

Experience

DotBot   **Evanston, IL**
Co-Founder, Chief Technology Officer   *July 2019 − present*
DotBot is an affordable, patent-published optical character recognition-based braille embosser for the visually impaired. Started through the LaunchX incubator at Northwestern University.

Projects

Interpreter for Xi
                                                                             May 2021 − August 2021
Wrote an interpreter for Xi, a C-family language used to teach compilers at Cornell University, in Java and ANTLR (a parser generator).

Fairfax County Science and Engineering Fair (FCSEF)   **Fairfax, VA**
                                                                             August 2017 − March 2019
Won 3rd place in systems software at FCSEF 2018 for exfiltrating data from air-gapped computers.
Won honorable mention and certificate of merit from Armed Forces Communications and Electronics Association at FCSEF 2019 for optimizing deep reinforcement learning via simulated quantum computing.

Computer Skills

Knowledge in machine learning, interpreters
Programming Technologies
 - Proficient: Python, Java, Ruby
 - Intermediate: HTML, CSS, Octave/R, Strawberry Fields, Pandas, ANTLR
 - Learning: C, OCaml, Tensorflow, PyTorch, Keras