

EDUCATION

Harvard University Cambridge, MA	<i>Expected May 2026</i>
<i>John A. Paulson School of Engineering and Applied Sciences: A.B. in Computer Science, S.M. (Concurrent Masters) in Computer Science</i>	
<ul style="list-style-type: none">● Cumulative GPA: 3.92/4.0 Extracurricular Activities: Harvard Tech for Social Good, Harvard Undergraduate Capital Partners, Harvard Computer Society.● Relevant Coursework: Systems Programming and Machine Organization, Linear Algebra and Vector Calculus, Linear Algebra and Real Analysis I, Discrete Mathematics.	
South Windsor High School South Windsor, CT	<i>August 2018 - June 2022</i>
<ul style="list-style-type: none">● Valedictorian Cumulative GPA: 4.46/4.0 SAT: 1580/1600 (Math: 800, EBRW: 780)● 2x AIME Qualifier AIME Score: 11 USA Math Olympiad (USAMO) Index: 219.5● 2022 Coca-Cola Scholarship Recipient (selected as one of 150 out of 68,000+ high school seniors nationwide)	

WORK EXPERIENCE

Harvard CS 20: Discrete Mathematics for CS <i>Incoming Teaching Assistant</i> Cambridge, MA	<i>Starting January 2023</i>
<ul style="list-style-type: none">● Teaching Assistant for COMPSCI E-20 Discrete Mathematics for Computer Science under Dr. Rebecca Nesson.● Grading student assignments and holding office hours to guide students in discrete math.	
Art of Problem Solving <i>Teaching Assistant and Grader</i> San Diego, CA (Remote)	<i>May 2022 - present</i>
<ul style="list-style-type: none">● Grading student assignments for computer science courses.● Serving as a teaching assistant for Introduction to Programming with Python.	
North South Foundation <i>Software Engineering Intern</i> Chicago, IL (Remote)	<i>January 2022 - June 2022</i>
<ul style="list-style-type: none">● Developed online donations platform using React and Node.js.● Implemented transaction processing using Stripe and Braintree APIs.● Constructed an authentication system for verified donors to access the payment portal easily and securely.● Created a scheduling algorithm to allow donors to schedule donations.	
Mathnasium <i>Math Instructor</i> South Windsor, CT	<i>August 2020 - August 2022</i>
<ul style="list-style-type: none">● Developed and implemented customized learning plans and curricula for individual students.● Taught arithmetic through calculus, trained students for the MathCounts and AMC 8/10/12 contests, and tutored for the SAT/PSAT and ACT math sections.	

EXTRACURRICULAR & LEADERSHIP EXPERIENCE

Harvard Tech for Social Good <i>Senior Software Engineer</i>	<i>September 2022 - present</i>
<ul style="list-style-type: none">● Co-developed a web app for OkaySo (React & Node.js, 10,000+ lines of code). OkaySo enables users to ask questions regarding identity, relationships, and more.● Implemented core, cache-optimized expert live chat feature for fast messaging, as well as secure login.	
Harvard Undergraduate Capital Partners <i>Sourcing Analyst</i>	<i>September 2022 - present</i>
<ul style="list-style-type: none">● Sourcing early-stage startups and connecting them with prominent venture capital firms.	
CodeSavant <i>Founder, Author, and Programming Instructor</i>	<i>April 2020 - present</i>
<ul style="list-style-type: none">● Developed a computer science curriculum and taught beginner and intermediate Python programming classes nationwide, raising ~\$2,000 for COVID-related causes.● Published Python and Java programming books on Amazon and created CodeSavant YouTube Channel (~1125 subs/250k+ views).	
MetricMix, LLC <i>Founder and Mobile App Developer</i>	<i>September 2018 - present</i>
<ul style="list-style-type: none">● (Using Swift for iOS App Development) Developed GeoScholar, a geography quiz app; Scholarly, an advanced GPA calculator; Gene Xpress, a protein synthesis simulator; GSEE Official, an economics resource app; and ReadSpeak, an accent translation app.	

PROJECTS AND CERTIFICATIONS

Pillola (pranavramesh.com/projects#pillola)	<i>July 2021</i>
<ul style="list-style-type: none">● Smart, secure pill dispenser designed for use in senior living facilities.● Designed all dispenser parts and conducted structural analyses using Autodesk Fusion 360.● Used Arduino and C++ to automate pill dispensing, scheduling, and secure fingerprint/keypad authentication.	
Table Tennis CV (pranavramesh.com/projects#tabletenniscv)	<i>August 2021</i>
<ul style="list-style-type: none">● Computer vision-machine learning application to track active table tennis gameplay using Python and OpenCV.● Leveraged frame differentiation and elliptical Hough transform to isolate and track a moving ball in view.● Trained a machine learning model using Scikit-Learn to predict where a ball lands based on the initial return location.	
The Python Starterpack (amazon.com/Python-Starterpack-Simple-Introduction/dp/B0874PCH11/)	<i>April 2020</i>
Java Decaffeinated (amazon.com/Java-Decaffeinated-Simple-Introduction/dp/B09K5TQWKC/)	<i>October 2021</i>
Shortest Paths Revisited and NP-Complete Problems Certificate (pranavramesh.com/algospec1)	<i>January 2021</i>
Graph Search, Shortest Paths, and Data Structures Certificate (pranavramesh.com/algospec2)	<i>December 2020</i>
Greedy Algorithms, Minimum Spanning Trees, and Dynamic Programming (pranavramesh.com/algospec3)	<i>December 2020</i>
Divide and Conquer, Sorting and Searching, and Randomized Algorithms (pranavramesh.com/algospec4)	<i>November 2020</i>

SKILLS AND INTERESTS

Languages: English (fluent) Tamil (native) French (business proficiency)
Programming Languages & Frameworks: Python, C++, Java, JavaScript, React, Node.js, Swift
Computer/Software: Alexa Developer Console, Autodesk Inventor, C++, Canva, Dart, Figma, Firebase, Flutter, Git, GitHub, Homebrew, HTML/CSS, LaTeX, Markdown, Matplotlib, Microsoft Office Suite, Notion, NumPy, Onshape, OpenCV, PyCharm, SoftCover, Visual Studio Code
Other Technical: Business Analytics, Data Science, Data Structures and Algorithms, iOS App Development, Object-Oriented Programming, Product Design, Product Engineering, Robotics, Statistical Modeling, Web Development, Web Design