

# PRANAV RAMESH

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## EDUCATION

**Harvard University**  
**John A. Paulson School of Engineering and Applied Sciences**  
Cambridge, MA 02138  
Expected May 2026  
Major GPA: 4.0/4.0  
Cumulative GPA: 3.92/4.0  
**A.B./S.M. in Computer Science (Concurrent Masters)**  
**Secondary in Economics**

**South Windsor High School**  
South Windsor, CT 06074  
August 2018 - June 2022  
GPA: 4.46/4.0 (Valedictorian)  
SAT: 1580/1600 (Math: 800, EBRW: 780)

### Relevant Coursework:

Discrete Mathematics for Computer Science (Harvard Extension School)  
Intensive Introduction to Computer Science Using Java (Harvard Secondary School)  
Intermediate Microeconomics  
Linear Algebra and Real Analysis I (Harvard Extension School)  
Management and Technology  
Systems Programming and Machine Organization  
Vector Calculus and Linear Algebra I

## SKILLS

**Languages:** English, Tamil, French  
**General:** adaptability, collaboration, communication, innovation, public speaking, problem-solving, research, writing

**Computer/Software:** Alexa Developer Console, Autodesk Inventor, C++, Canva, Dart, Excel, Figma, Firebase, Flutter, Git, GitHub, Homebrew, HTML/CSS, Java, JavaScript, LaTeX and Overleaf, Markdown, Matplotlib, Microsoft Office Suite, Notion, NumPy, Onshape, OpenCV, PowerPoint, PyCharm, Python, React, SoftCover, Swift, Visual Studio Code, Word  
**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/design

## WORK EXPERIENCE

**Teaching Assistant, Grader - The Art of Problem Solving** May 2022 - present

- Grading student assignments for computer science courses.
- Serving as a teaching assistant for Introduction to Programming with Python.

**Software Engineering Intern - North South Foundation** January 2022 - June 2022

- Developed online platform using React / Node.js and leveraged Stripe and Braintree APIs to process transactions.
- Constructed authentication system for donors to access payment portal easily.
- Created an algorithm for donors to choose to schedule donations.

**Math Instructor - Mathnasium** August 2020 - August 2022

- 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

**Software Engineer - Harvard Tech for Social Good** September 2022 - present

- Collaborating with a team of software engineering members to develop a web app for OkaySo (React / Node.js). This platform connects users with experts to ask questions regarding health, identity, relationships, stress, and more.

**Sourcing Analyst - Harvard Undergraduate Capital Partners** September 2022 - present

- Sourcing early-stage startups and connecting them with prominent venture capital firms.

**Founder, Author, and Programming Instructor - CodeSavant** April 2020 - present

- Developed a curriculum and taught beginner/intermediate Python programming classes nationwide, raising ~\$2,000 for COVID-related causes.
- Published programming books on Amazon and created CodeSavant YouTube Channel (~950 subs/175k+ views).

**Founder and Mobile App Developer - MetricMix, LLC** September 2018 - present

- (Using Swift) Developed [GeoScholar](#), a geography quiz app; [Scholar.ly](#), an advanced GPA calculator; [Gene Xpress](#), a protein synthesis simulator; [GSEF Official](#), an economics resource app; and [ReadSpeak](#), an accent translation app.

## PROJECTS AND CERTIFICATIONS

**Pillola ([pranavramesh.com/projects1.html](https://pranavramesh.com/projects1.html))**

- 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/projects1.html](https://pranavramesh.com/projects1.html))**

- 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.

**GeoScholar ([apps.apple.com/us/app/geoscholar/id1453068019](https://apps.apple.com/us/app/geoscholar/id1453068019))**

- Designed geography bee preparation app using Swift to develop all training and fact pages and StoreKit to process in-app purchases, and leveraged Firebase to store and request quiz decks.

**The Python Starterpack ([amazon.com/Python-Starterpack-Simple-Introduction/dp/B0874PCH1J/](https://amazon.com/Python-Starterpack-Simple-Introduction/dp/B0874PCH1J/))**

- Introductory Python programming book covering types, control structures, and object-oriented programming concepts.

**Java Decaffeinated ([amazon.com/Java-Decaffeinated-Simple-Introduction/dp/B09K5TQWKC/](https://amazon.com/Java-Decaffeinated-Simple-Introduction/dp/B09K5TQWKC/))**

- Introductory Java programming book covering types, control structures, and object-oriented programming concepts.

**Shortest Paths Revisited and NP-Complete Problems Certificate** January 2021  
[www.coursera.org/account/accomplishments/certificate/TVSZEDGF45XS](https://www.coursera.org/account/accomplishments/certificate/TVSZEDGF45XS)

**Graph Search, Shortest Paths, and Data Structures Certificate** December 2020  
[www.coursera.org/account/accomplishments/certificate/8J29KCWZYQAY](https://www.coursera.org/account/accomplishments/certificate/8J29KCWZYQAY)

**Greedy Algorithms, Minimum Spanning Trees, and Dynamic Programming** December 2020  
[www.coursera.org/account/accomplishments/certificate/8PB2UFWXEEKS](https://www.coursera.org/account/accomplishments/certificate/8PB2UFWXEEKS)

**Divide and Conquer, Sorting and Searching, and Randomized Algorithms** November 2020  
[www.coursera.org/account/accomplishments/certificate/MJ9RL2JNEU26](https://www.coursera.org/account/accomplishments/certificate/MJ9RL2JNEU26)