

# What Can I Do With a Joint Major in Computer Science and Mathematics?



Harvey Mudd College computer science and mathematics alumni went on to the following organizations and universities between 2021 and 2025.

## Job Titles

Analyst	Engineer	Junior AI Research Engineer	Recruiter	Quantitative Researcher
Associate Consultant	Engineering Analyst	Machine Learning Engineer	Science Policy Fellow	Quantitative Strategist
Associate Software Engineer	Forward Deployed Software Engineer	Machine Learning Research Engineer	Software Developer	Quantitative Trader
Backend Software Engineer	Front End Software Engineer	Patent Agent	Software Development Engineer	
Caltech Schmidt Scholar	Global Technology Analyst	Program Coordinator	Software Engineer	
Data Analyst	Intellectual Property Consultant	Operations Engineer	Software Engineer II	

## Employers

Airbnb	Citi	Goldman Sachs	Microsoft	Science and Technology Policy Institute
Amazon	Costar Group	Google	Miso Robotics	SpaceX
Amazon Web Services	Convex	Groundlight AI	National Career Education	Stripe
Anysphere	CrowdStrike	Hulu	Niantic	Susquehanna International Group
Aon	Crusoe Energy	Idemia	Nutshell Labs	Terabase
Apple	Databricks	Instabase	Optiver	Thumbtack
Arrowstreet Capital	Duolingo	Jane Street	Plaid	Tudor Investment Corporation
Asana	Electromagnetic Systems Inc.	JPMorgan Chase	Palantir	Veeva Systems
Bank of America	Ellison Medical Institute	Juniper Networks	Pure Storage	Visa
Bain & Company	Epic	KAV	Ramp	Webflow
Bloomberg	Esri	Lasherfiche	Rippling	YouTube
Boston Consulting Group	ExtraHop	Lyft	Roblox	Zillow Group
Caltech	Fenwick & West	Mastercard	Second Order Effects	ZipRecruiter
Capital One	Figma	Memverge	ServiceNow	
Citadel	Flycoin	Meta		

## Graduate Schools

Brown University	Massachusetts Institute of Technology	University of California, Davis	University of California, Santa Barbara	University of North Carolina at Chapel Hill
Carnegie Mellon University	New York University	University of California, Irvine	University of Chicago	University of Pennsylvania
Claremont Graduate University	Princeton University	University of California, Los Angeles	University of Illinois Urbana-Champaign	University of Southern California
Cornell University	Stanford University	University of California, San Diego	University of Massachusetts	University of Wisconsin
Georgia Institute of Technology	University of California, Berkeley			University of Washington

## Summer Employers

Accenture	Asana	ClickLease	Figma	JUMP Investors
Adibi IP	Autodesk	Costar Group	Fillet AI	Laserfiche
Adona Medical	Axonics Modulations	CrowdStrike	FlowEQ	Lawrence Livermore National Lab
Agathos	Bain & Company	Daison	Flycoin*	Los Alamos National Lab*
Airbnb	Beli*	Datagrid Solutions*	GoDaddy	Lucy Parsons Lab*
Amazon*	Bloomberg	DocuSign	Goldman Sachs	Lyft
Amazon Web Services	Boston Consulting Group	Dusty Robotics	HomeAway*	Mastercard
Ambient.ai*	Brookhaven National Lab (REU)*	Dropbox	Hulu	MathWorks
American Express	Brown University (REU)*	Ellison Medical Institute	lambic Therapeutics	Meta*
Antares Audio Tech*	Capital One	Esri	IBM	Microsoft
Apple	Cascade Designs	Etsy	Inspirit A.I.	Massachusetts Institute of Technology*
Applied Materials	Carnegie Mellon University (REU)*	Everlaw	Intuit	Motiv Power System
Arete	Celerity Solutions*	Goldman Sachs	Jane Street	
Arrowstreet Capital		Google*	JPMorgan Chase	

## Summer Employers

Mount Sinai Health, Ma'ayan Lab (REU)*	Pacific Investment Management Company	Rapid7*	Susquehanna International Group	Viasat*
Michigan State (REU)	Paragon Software	Raytheon Technologies*	Tesla	VOXA*
Miso Robotics	PayPal*	REImagine*	The Chamberlain Group	Walmart Global Tech
National Oceanic and Atmospheric Administration	Perkins and Will*	Rippling	Tradeweb*	Western Digital
Netflix	Plaid	Roblox	Treigning Lab*	Yale University (REU)
Niagara Bottling	Polymath (REU)*	Rochester Institute of Technology (REU)*	UL Solutions	YouTube
Northeastern University (REU)*	Pomona College (REU)	Rutgers DIMACS (REU)	United Health Group	ZillowGroup
Nubox*	Properly*	SARAO*	University of Auckland (REU)	<i>*companies that hired first-year students</i>
Optiver	Pure Storage	ServiceNow*	UCLA	
Oracle	Qualtrics	Stripe	University of Southern California (REU)*	
Orca Systems	Ramp	SquareTrade	University of Washington (REU)*	

Here are a few areas that may interest a computer science and math joint major.

### Area

### Employers

#### COMPUTATIONAL SYSTEMS & ALGORITHMS

Algorithm design and analysis  
ML algorithm development  
Numerical computing  
Optimization and constraint solving  
High-performance and parallel computing

Systems modeling and simulation  
Software and hardware companies  
Research labs  
Engineering companies  
Government  
Startups

#### DATA SCIENCE & STATISTICAL COMPUTING

Data processing and analysis  
Machine learning and predictive modeling  
Statistical inference  
Signal processing

Data visualization  
Tech companies  
Consulting firms  
Healthcare and pharmaceutical companies  
Manufacturing and logistics companies  
Research labs  
Startups

#### QUANTITATIVE FINANCE & RISK ANALYTICS

Quantitative modeling  
Algorithmic trading systems  
Risk analysis and portfolio optimization  
Financial data engineering

Stochastic modeling  
Quant Firms  
Investment banks  
Hedge funds and trading firms  
Asset management companies  
Fintech companies  
Insurance and actuarial firms

### What You Can Do Now

- Having related experience is critical to most employers. Obtaining an internship or part-time job in a relevant area will increase employability.
- Develop strong interpersonal, communication and other "soft skills."
- Learn to work well on a team and to meet deadlines.
- Take additional courses in business, science or engineering.
- Stay current in programming languages.
- Realize that programming and consulting may go hand-in-hand.
- Join related professional organizations.

### What You Can Do After Graduation

- An undergraduate degree will qualify applicants for positions in programming, systems/software development and a variety of computer-related areas.
- A master's degree or an MBA may be needed for upper-level positions.
- An advanced degree will qualify applicants for academic and management positions.

