

Careers Outlook for Majors in Computer Science

in the

San Diego/Los Angeles/Orange/Riverside/Imperial
Counties

Source: Lightcast™
for the time period **AUG 2021 to JULY 2022**

College of Science, Technology, Engineering, and Mathematics
California State University San Marcos

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1 About

The data is based on The Analyst software by Lightcast™ for active full-time positions (32 hours or more) posted from AUG 2021 to July 2022 in the San Diego/Los Angeles/Orange/Riverside/Imperial Counties advertised for a Bachelor’s degree in Computer Science as one of the educational requirements.

























We used the 2018 Standard Occupational Classifications (SOC) for:

- software developer
- computer occupations
- computer systems analysts
- web developers
- computer user support specialists
- software QA analysts and testers
- computer programmers
- web and digital interface designers

2 Number of Unique Postings

There were 123,661 unique job postings:

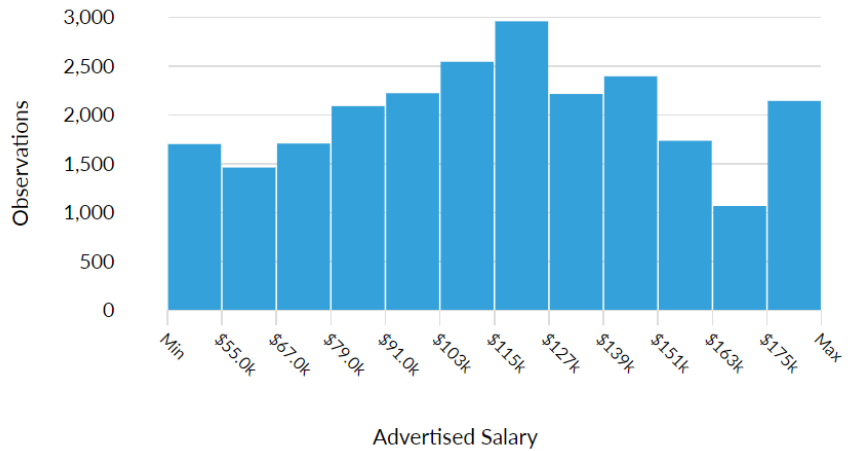
San Diego County	Los Angeles County	Orange County	Riverside County	Imperial County	Unique Postings
33,379	59,215	28,841	2,140	86	123,661

Occupation (SOC)	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
 Software Developers	160,793 / 54,195	3 : 1 	
 Computer Occupations, All Other	97,950 / 33,482	3 : 1 	
 Computer Systems Analysts	28,805 / 10,268	3 : 1 	
 Web Developers	22,883 / 8,421	3 : 1 	
 Computer User Support Specialists	24,534 / 7,640	3 : 1 	
 Software Quality Assurance Analysts and Testers	18,961 / 6,268	3 : 1 	
 Computer Programmers	12,112 / 2,588	5 : 1 	
 Web and Digital Interface Designers	4,212 / 799	5 : 1 	

3 Median Advertised Salary

There are 24,189 advertised salary observations (20% of the 123,661 matching postings).

\$115.6K
Median Advertised Salary

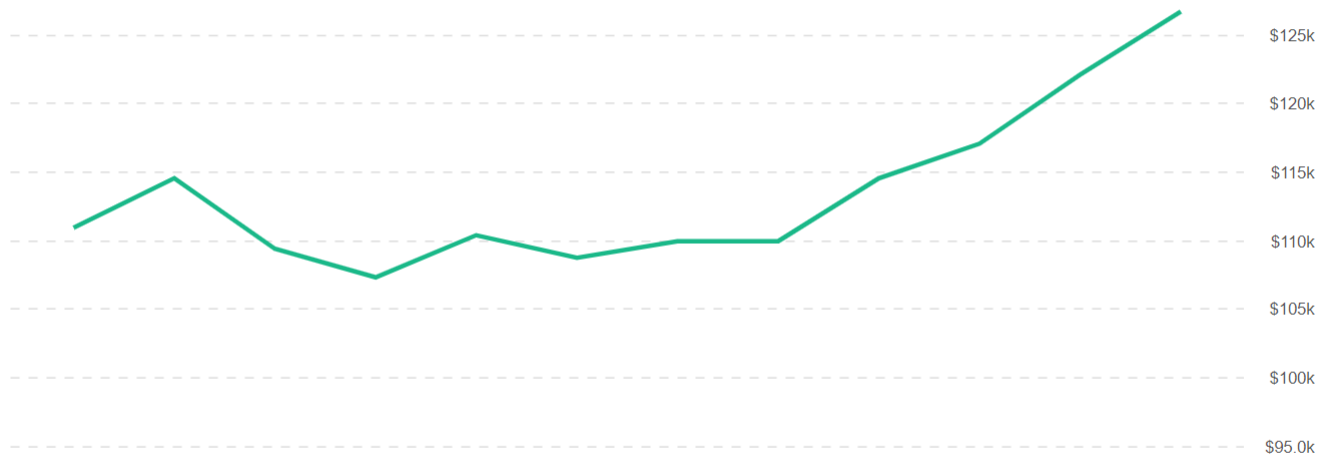


4 Advertised Wages Trend

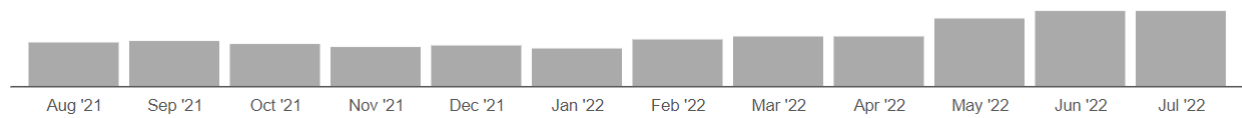
Advertised Wage Trend ⓘ

▲ **14.2%** Aug 2021 - Jul 2022
\$116k Median

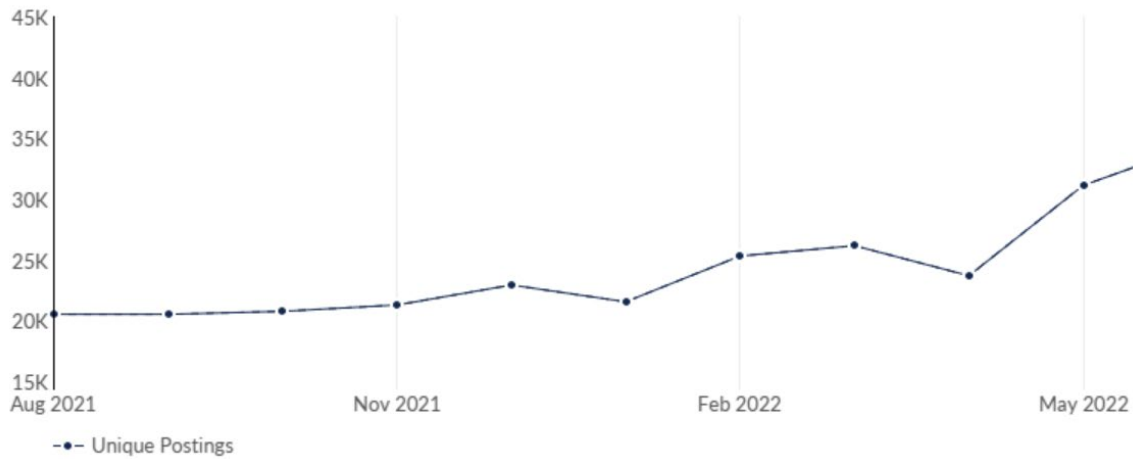
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24,190 Job Postings



5 Unique Postings Trend



6 Education Breakdown

Example: “A.A. or B.A. or equivalent work or educational experience preferred” will be counted in both Associate’s Degree and Bachelor’s Degree categories.

Education Level ?	Unique Postings	% of Total
No Education Listed	0	0%
High school or GED	3,837	3%
Associate degree	6,394	5%
Bachelor's degree	123,661	100%
Master's degree	34,807	28%
Ph.D. or professional degree	10,570	9%

7 Experience Breakdown

Example: “2-3 years” includes postings that request “at least 2 years of experience” OR “at least 3 years of experience.”

Minimum Experience ?	Unique Postings	% of Total
No Experience Listed	21,914	18%
0 - 1 Years	8,093	7%
2 - 3 Years	27,143	22%
4 - 6 Years	38,641	31%
7 - 9 Years	16,921	14%
10+ Years	10,949	9%

8 Who’s Hiring

Company	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Boeing	13,916 / 3,884	4 : 1	
Deloitte	8,045 / 3,068	3 : 1	
Northrop Grumman	13,656 / 3,057	4 : 1	
Revature	13,461 / 2,325	6 : 1	
Jobot	11,401 / 2,232	5 : 1	
Anthem Blue Cross	3,372 / 2,050	2 : 1	
Motion Recruitment	3,638 / 1,982	2 : 1	
Raytheon Technologies	4,872 / 1,976	2 : 1	
Randstad	5,155 / 1,975	3 : 1	
General Atomics	5,110 / 1,726	3 : 1	

9 Top Cities Posting

City	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Los Angeles, CA	85,797 / 27,435	3 : 1	
San Diego, CA	84,755 / 27,210	3 : 1	
Irvine, CA	37,743 / 12,423	3 : 1	
El Segundo, CA	16,846 / 4,946	3 : 1	
Costa Mesa, CA	6,201 / 2,351	3 : 1	
Carlsbad, CA	5,675 / 2,072	3 : 1	
Santa Ana, CA	6,487 / 2,029	3 : 1	
Pasadena, CA	5,938 / 1,939	3 : 1	
Long Beach, CA	6,614 / 1,933	3 : 1	
Santa Monica, CA	5,085 / 1,910	3 : 1	

10 Top Posted Job Titles

Job Title	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Software Engineers	22,382 / 6,558	3 : 1	
Systems Engineers	7,772 / 2,314	3 : 1	
Software Developers	8,594 / 1,806	5 : 1	
Principal Software Engineers	4,234 / 1,409	3 : 1	
Business Systems Analysts	3,745 / 1,407	3 : 1	
DevOps Engineers	3,658 / 1,397	3 : 1	
Principal Systems Engineers	4,667 / 1,236	4 : 1	
Embedded Software Engineers	3,617 / 1,123	3 : 1	
Full Stack Developers	2,797 / 1,015	3 : 1	
Java Developers	2,739 / 994	3 : 1	

11 Top Industries

Industry	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Professional, Scientific, and Technical Services	95,546 / 30,784	3 : 1	
Manufacturing	77,998 / 23,910	3 : 1	
Administrative and Support and Waste Management and Remediation Services	51,275 / 18,452	3 : 1	
Finance and Insurance	22,083 / 8,414	3 : 1	
Information	23,404 / 7,761	3 : 1	
Retail Trade	9,513 / 3,772	3 : 1	
Wholesale Trade	8,567 / 2,923	3 : 1	
Health Care and Social Assistance	7,411 / 2,614	3 : 1	
Educational Services	6,839 / 2,098	3 : 1	
Real Estate and Rental and Leasing	3,296 / 1,144	3 : 1	

12 In-Demand Skills

12.1 Top Specialized Skills

Skills	Postings	% of Total Postings
Computer Science	61,536	50%
Agile Methodology	32,118	26%
Software Engineering	30,213	24%
Software Development	28,415	23%
Python (Programming Language)	24,884	20%
Java (Programming Language)	22,548	18%
SQL (Programming Language)	21,724	18%
Amazon Web Services	20,435	17%
JavaScript (Programming Language)	19,986	16%
Automation	18,958	15%

12.2 Top Common Skills

Skills	Postings	% of Total Postings
Communications	57,950	47%
Management	38,493	31%
Problem Solving	30,150	24%
Leadership	28,519	23%
Troubleshooting (Problem Solving)	25,717	21%
Operations	23,600	19%
Planning	21,786	18%
Customer Service	16,782	14%
Mathematics	15,817	13%
Interpersonal Communications	15,751	13%

12.3 Top Software Skills

Skills	Postings	% of Total Postings
Python (Programming Language)	24,879	20%
Java (Programming Language)	22,548	18%
SQL (Programming Language)	21,721	18%
Amazon Web Services	20,434	17%
JavaScript (Programming Language)	19,986	16%
Application Programming Interface (API)	17,581	14%
C++ (Programming Language)	16,555	13%
C# (Programming Language)	14,072	11%
Linux	13,395	11%
Git (Version Control System)	12,428	10%