

Careers Outlook for Majors in Software Engineering

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 Software Engineering as one of the educational requirements.

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

- computer programmers
- software quality assurance analysts
- computer systems analysts
- software developers
- web developers
- web and digital interface designers

2 Number of Unique Postings

There were 82,539 unique job postings:

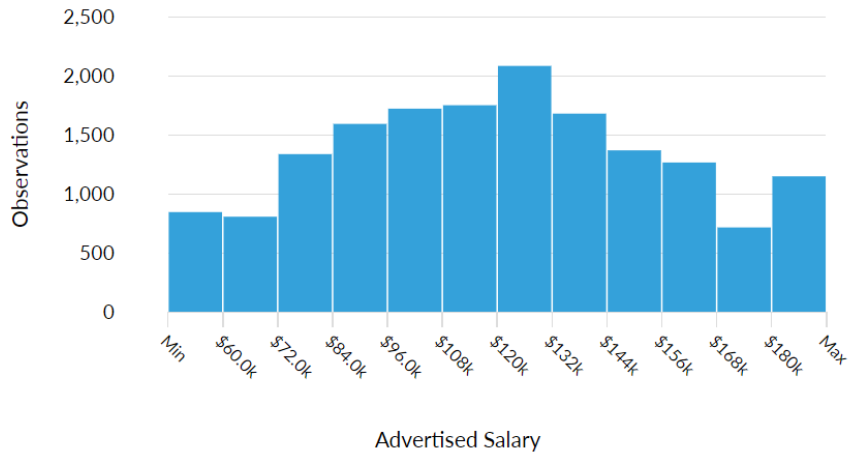
San Diego County	Los Angeles County	Orange County	Riverside County	Imperial County	Unique Postings
22,817	38,388	19,851	1,419	64	82,539



3 Median Advertised Salary

There are 16,296 advertised salary observations (20% of the 82,539 matching postings).

\$120.1K
Median Advertised Salary

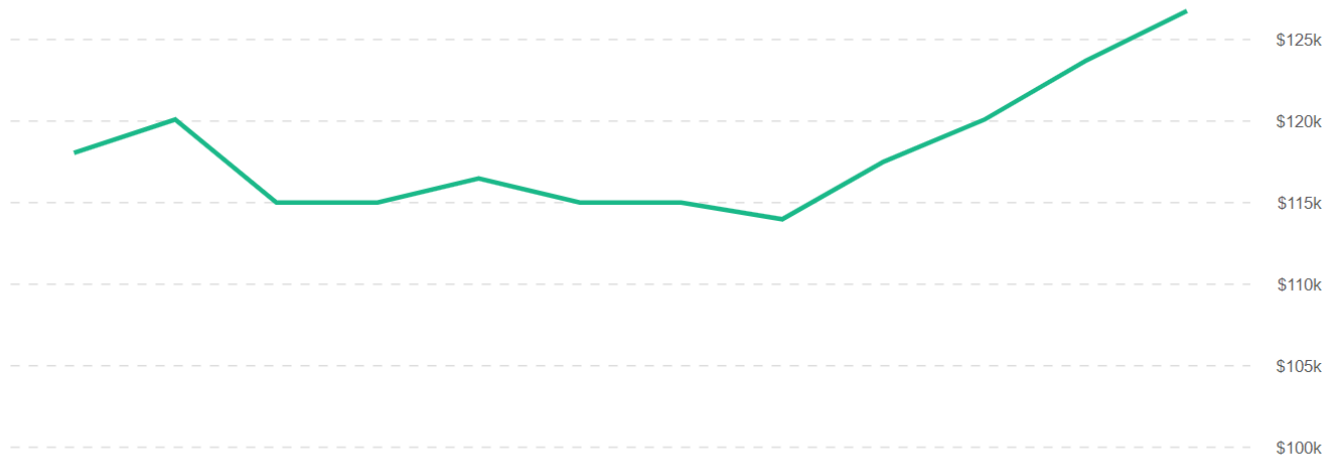


4 Advertised Wages Trend

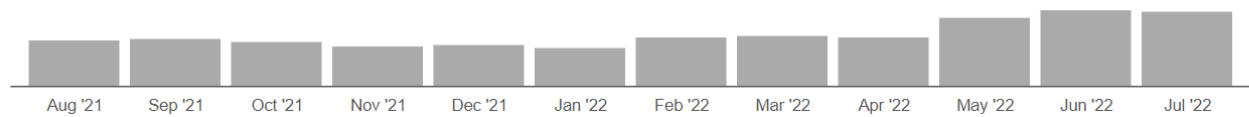
Advertised Wage Trend ⓘ

▲ **7.4%** Aug 2021 - Jul 2022
\$120k Median

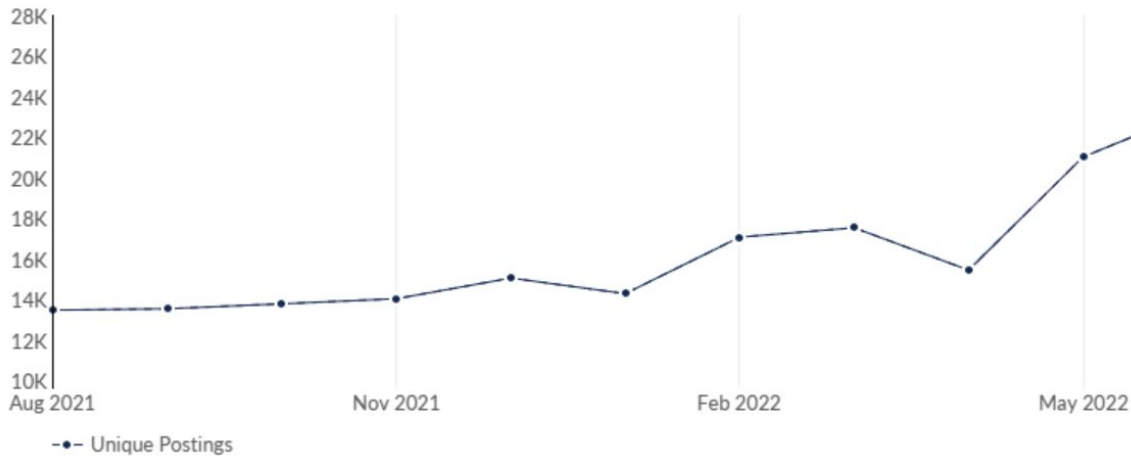
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16,296 Job Postings



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	1,775	2%
Associate degree	4,117	5%
Bachelor's degree	82,539	100%
Master's degree	22,076	27%
Ph.D. or professional degree	5,897	7%

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
No Experience Listed	14,621
0 - 1 Years	5,959
2 - 3 Years	18,467
4 - 6 Years	26,729
7 - 9 Years	10,836
10+ Years	5,927

8 Who’s Hiring

Company	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
Revature	12,951 / 2,197	6 : 1	
Boeing	7,156 / 1,938	4 : 1	
Jobot	9,537 / 1,898	5 : 1	
Motion Recruitment	3,292 / 1,788	2 : 1	
Anthem Blue Cross	2,592 / 1,605	2 : 1	
Northrop Grumman	7,114 / 1,571	5 : 1	
CyberCoders	3,970 / 1,478	3 : 1	
Randstad	3,824 / 1,427	3 : 1	
General Atomics	4,078 / 1,335	3 : 1	
Amazon	3,234 / 1,300	2 : 1	





















9 Top Cities Posting

City	Total/Unique (Aug 2021 - Jul 2022)	Posting Intensity	Unique Postings Trend (Aug 2021 - Jul 2022)
San Diego, CA	57,285 / 18,531	3 : 1	
Los Angeles, CA	56,996 / 18,205	3 : 1	
Irvine, CA	27,690 / 8,791	3 : 1	
El Segundo, CA	8,414 / 2,669	3 : 1	
Santa Monica, CA	3,970 / 1,457	3 : 1	
Costa Mesa, CA	3,248 / 1,419	2 : 1	
Santa Ana, CA	4,423 / 1,409	3 : 1	
Carlsbad, CA	3,722 / 1,395	3 : 1	
Long Beach, CA	4,614 / 1,301	4 : 1	
Pasadena, CA	4,151 / 1,275	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	22,421 / 6,558	3 : 1	
Software Developers	8,573 / 1,805	5 : 1	
Business Systems Analysts	3,747 / 1,404	3 : 1	
DevOps Engineers	3,654 / 1,392	3 : 1	
Principal Software Engineers	4,052 / 1,336	3 : 1	
Embedded Software Engineers	3,617 / 1,118	3 : 1	
Full Stack Developers	2,784 / 1,011	3 : 1	
Java Developers	2,739 / 994	3 : 1	
Lead Software Engineers	3,295 / 959	3 : 1	
Full Stack Software Engineers	2,212 / 767	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	63,143 / 19,743	3 : 1 	
Manufacturing	47,562 / 14,607	3 : 1 	
Administrative and Support and Waste Management and Remediation Services	38,652 / 13,787	3 : 1 	
Finance and Insurance	16,205 / 6,230	3 : 1 	
Information	17,592 / 5,693	3 : 1 	
Retail Trade	6,620 / 2,713	2 : 1 	
Wholesale Trade	5,562 / 1,859	3 : 1 	
Health Care and Social Assistance	4,614 / 1,616	3 : 1 	
Educational Services	4,447 / 1,348	3 : 1 	
Real Estate and Rental and Leasing	2,423 / 823	3 : 1 	

12 In-Demand Skills

12.1 Top Specialized Skills

Skills	Postings	% of Total Postings
Computer Science	46,445	56%
Software Engineering	26,967	33%
Agile Methodology	24,038	29%
Software Development	23,785	29%
Java (Programming Language)	19,746	24%
Python (Programming Language)	19,480	24%
SQL (Programming Language)	18,331	22%
JavaScript (Programming Language)	18,078	22%
Amazon Web Services	16,545	20%
Application Programming Interface (API)	15,445	19%

12.2 Top Common Skills

Skills	Postings	% of Total Postings
Communications	36,542	44%
Management	21,332	26%
Problem Solving	19,598	24%
Leadership	16,025	19%
Troubleshooting (Problem Solving)	15,488	19%
Operations	12,968	16%
Planning	11,732	14%
Interpersonal Communications	10,551	13%
Research	10,080	12%
Innovation	9,651	12%

12.3 Top Software Skills

Skills	Postings	% of Total Postings
Java (Programming Language)	19,746	24%
Python (Programming Language)	19,477	24%
SQL (Programming Language)	18,329	22%
JavaScript (Programming Language)	18,078	22%
Amazon Web Services	16,545	20%
Application Programming Interface (API)	15,444	19%
C++ (Programming Language)	13,308	16%
C# (Programming Language)	12,649	15%
Git (Version Control System)	11,141	13%
Cascading Style Sheets (CSS)	9,991	12%