WHAT IS COMPUTER SCIENCE?

Computer Science is the study of computers and computing, including their algorithmic processes, principles, their hardware and software designs, their applications and their impact on society. Principle areas of study within Computer Science include artificial intelligence, computer systems and networks, security, database systems, human computer interaction, vision and graphics, numerical analysis, programming languages, software engineering, bioinformatics and theory of computing.

INTERESTS
(THINGS YOU LIKE TO DO)

- Working with technology
- Experimentation
- Working indepentdantly
- Analyzing data
- Learning about new forms of technology
- Computer coding
- Solving complex problems
- Learning how things work

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SKILLS
(THINGS YOU WILL LEARN & USE)

- Computer literacy
- Computer programming skills
- Data analysis
- Time management
- Detail orientated
- Problem solving
- Math and reasoning skills
- Ability to work independently
- Ability to work under pressure

LAVC DEGREES & CERTIFICATES OFFERED

This degree can serve as a basis for further undergraduate education in computer science. LAVC offers the following degrees:
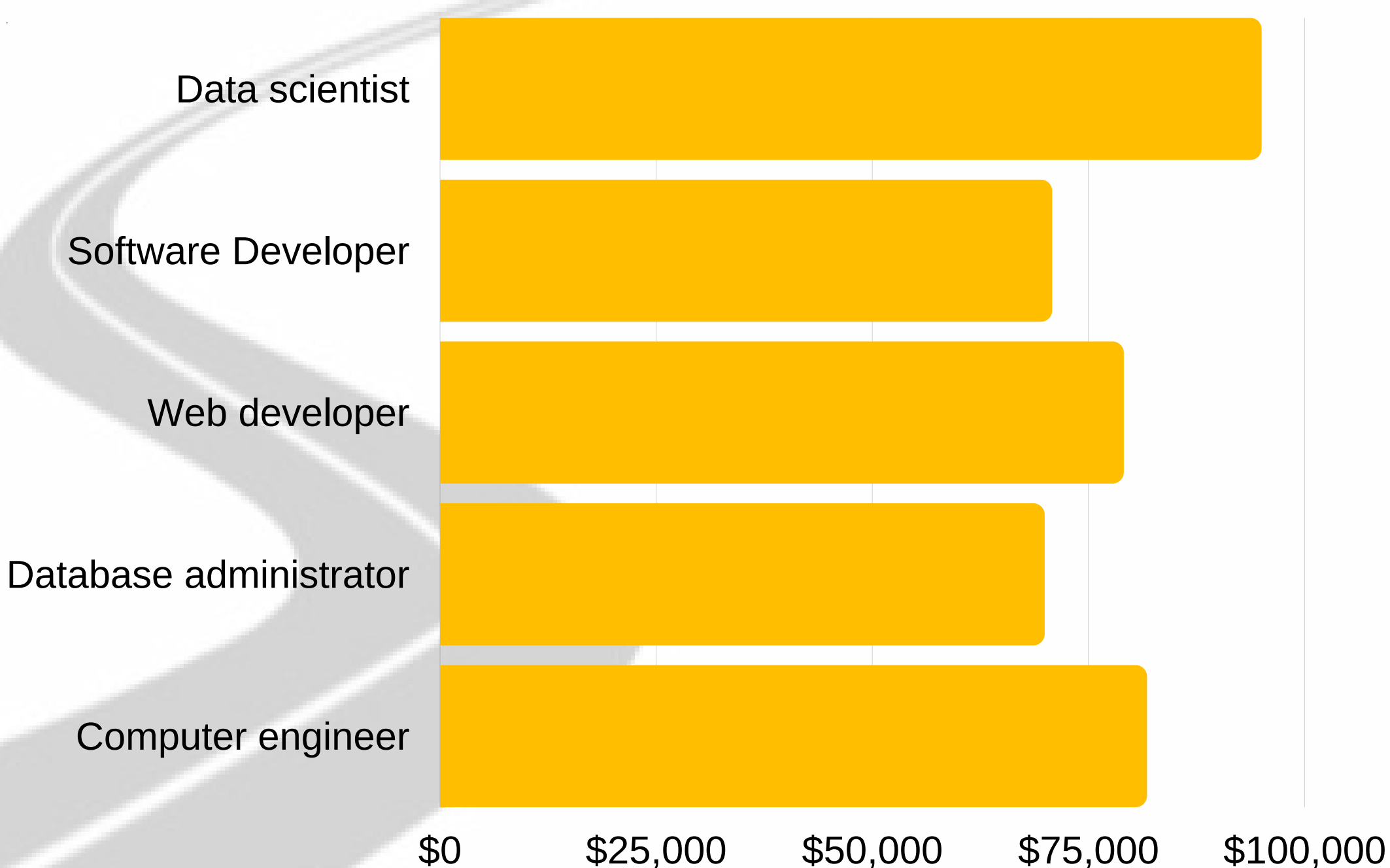
- **Associate of Science (AS) in Computer Science**
- **Associate of Arts (AA) in Computer Applications Specialist**
- **Certificate of Achievement in Computer Science Programing**
- **Certificate of Achievement in Computer Applications Specialist**
- **Skills Certificate in Website Software Specialist**
- **Skills Certificate in Net Programming**
- **Skills Certificate in C/C++**
- **Skills Certificate in Microcomputer Systems**

TRANSFER RELATED MAJORS

- **CSU Monterey Bay:** Computer Science
- **Sacramento State:** Computer Science
- **San Diego State:** Computer Engineering and Computer Science
- **CSU San Bernardino:** Computer Science
- **CSU Los Angeles:** Computer Science
- **CSU Northridge:** Computer Science
- **Cal Poly Pomona:** Computer Science
- **UC Berkeley:** Computer Science
- **UC Los Angeles:** Computer Science, Computer Engineering, and Computer Science & Engineering
- **Stanford University:** Computer Science

EARNINGS*

Data scientist

Software Developer

Web developer

Database administrator

Computer engineer

$0 $25,000 $50,000 $75,000 $100,000

Earnings can vary by occupation and experience. The following are median wages as of 2018 in California based on CaliforniaCareerZone.org

RELATED OCCUPATIONS

- Data scientist
- Software developer
- Database administrator
- Computer hardware engineer
- Information security analyst
- IT project manager
- Web developer
- Computer systems analyst
- Computer support specialist
- Game designer

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POTENTIAL EMPLOYERS

- Software companies
- Freelance work
- Social media company
- IT departments of private businesses
- Colleges/universities
- Cyber security companies

FOR MORE INFORMATION

www.lavc.edu/transfer
https://www.lavc.edu/csis/AA-Degrees/Computer-Science-(AS).aspx
www.lavc.edu/transfer/majors/default.html
www.assist.org
www.eureka.org
www.cacareerzone.org
www.onetonline.org
http://degrees.calstate.edu/
https://admission.universityofcalifornia.edu/counselors/files/undergraduate_majors_list.pdf

This general information is provided by the LAVC Career/Transfer Center. For specific information about majors and careers please make an appointment to see a counselor either online, in person at the Counseling Department (Student Services Annex) or by phone at (818) 947-2474.