

# BACHELORS COMPUTER SCIENCE

## TOP INDUSTRIES

1. Software & Computer Services
2. Financials
3. Retail
4. Automobiles & Parts
5. Technology Hardware & Equipment

## SAMPLE JOB TITLES

- Application Developer
- Artificial Intelligence Engineer
- Business Application Developer
- Cloud Analyst
- Data Scientist
- DevOps Programmer
- Forward Deployed Engineer
- Full Stack Developer
- Investment Banking Analyst
- Junior Developer
- Quantitative Trader
- Software Development Engineer

## TOP HIRING COMPANIES



## SAMPLE HIRING COMPANIES

- Akuna Capital
- Ally Financial
- Apple
- Atlassian
- Boeing
- Bosch
- Caterpillar
- Charles Schwab
- Cisco
- Comerica Bank
- Criteo
- Datadog
- Deloitte
- Duolingo
- Epic
- Expedia
- EY
- FANUC
- Fiserv
- Five Rings
- Geico
- General Motors
- Goldman Sachs
- Grainger
- IBM
- IMC Trading
- Jane Street Capital
- Lockheed Martin
- Maxar
- McKinsey
- Meta
- MongoDB
- NASA JPL
- Northrop Grumman
- Optiver
- Oracle
- Palantir
- Petronas
- Procter & Gamble
- PwC
- Raytheon - RTX
- Roblox
- Snap
- SpaceX
- Stellantis
- Stripe
- Stryker
- Target
- Tesla
- TikTok
- Uber
- United Wholesale Mortgage
- University of Michigan
- Vanguard
- Walmart
- Wolverine Trading
- X By 2

## FULL TIME STARTING ANNUAL SALARY

Average: \$116,477

Min	Median	Max
\$40,000	\$119,500	\$250,000

## INTERN HOURLY SALARY

Average: \$38.03

Min	Median	Max
\$12	\$34	\$125

Data above are from Academic Year 2023.  
Visit [career.engin.umich.edu/career/salary-info](https://career.engin.umich.edu/career/salary-info) for more comprehensive data.

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## SAMPLE ELEVATOR PITCH

Hi, my name is [NAME] and I am currently a [year in school] studying computer science at the University of Michigan.

I am currently enrolled in Data Structures and Algorithms, in which I have been introduced to priority queues. I have implemented priority queues in many different ways, such as with a linked-list and a binary tree. After implementing my own priority queues, I worked with them by creating a Zombie defense game.

On campus, I'm involved in the Society of Women Engineers as an outreach officer where I connect with young girls to introduce them to the concepts of engineering.

What interested me about your position is that I see it as a way to continue the growth of not only my technical skills, but also my communication skills, and I would love for you to tell me more about your opportunities.

## SAMPLE IMPACT STATEMENT

**Before** - Wrote an API to make requests from the database

**After** - Coded an API using Python for users to post comments, retrieve other users that match certain criteria, and obtain posts in the most recent order

## KEY COURSES

**EECS 281** - Data Structures & Algorithms; required for almost all upper-level EECS courses; intro to algorithm analysis and  $O$ -notation; several programming assignments. *Prerequisites: EECS 203 & EECS 280*

**EECS 400 level classes** - Commonly referred to as upper levels, allows you to focus on further computer science development, such as Computer Security, Web Systems, Artificial Intelligence, and more.

**Major Design Experience (MDE)** - Typically taken in the last year of CSE degree, this class allows you to focus even further on one topic in computer science by completing a course long project with a group.

## KEY SKILLS

**C/C++, Java, Python**-coding languages

**Javascript** -Programming language used to make web pages interactive

**Agile methodology** - Type of project management process

**Optimization**-recognizing runtime and space complexity of an algorithm that you/someone else has written

## SAMPLE EXTRACURRICULARS

**AborHacks**    **Wolverine Soft**    **HackBlue**    **Michigan Hackers**    **Eta Kappa Nu** - Honor Society

**Michigan Student Artificial Intelligence Laboratory (MSAIL)**    **Girls in EECS (GEECS)**

**Design Teams** - STARX, Michigan Autonomous Aerial Vehicles, M-Fly, Michigan Data Science Team