

# High-Income Skills & Tech Stack for CSE Students

## 1. Programming Languages

- Python - Versatile, used in AI, backend, scripting
- JavaScript - Essential for web development
- Java - Enterprise applications, Android development
- C/C++ - Systems programming, competitive coding
- SQL - Database management

## 2. Data Structures & Algorithms (DSA)

- Core for coding interviews and problem-solving
- Must-learn topics: Arrays, Trees, Graphs, Dynamic Programming

## 3. Web Development

- Frontend: HTML, CSS, JavaScript, React
- Backend: Node.js, Django, Flask
- Databases: MongoDB, PostgreSQL, MySQL

## 4. Artificial Intelligence & Machine Learning

- Python Libraries: scikit-learn, TensorFlow, PyTorch
- Topics: Regression, Classification, Clustering, NLP, Deep Learning

## 5. DevOps & Cloud Computing

- Tools: Docker, Kubernetes, Jenkins
- Cloud: AWS, Azure, GCP

## 6. Mobile App Development

- Flutter (Dart), React Native, Kotlin, Swift

## 7. Cybersecurity

- Basics of networks and ethical hacking
- Tools: Wireshark, Burp Suite, Metasploit

## 8. Data Engineering & Big Data

- Tools: Hadoop, Spark, Kafka, Airflow

- Database Systems: NoSQL, SQL

## **9. System Design & Architecture**

- Design scalable and efficient systems
- Common topics: Load balancing, caching, database sharding

## **10. Career Tools & Other Essentials**

- Git & GitHub - Version control
- Linux - System knowledge
- LeetCode, HackerRank - Practice platforms
- Resume, LinkedIn, Personal Projects, Open Source Contributions