Study Plan for Bachelor's Degree in Computer Science

Introduction

As a prospective computer science student, I, Ajiboye Yusuf Olamide, am eager to embark on a four-year journey at a renowned Chinese university, commencing in September 2025. My objective is to gain a comprehensive understanding of computer science, equipping me with the skills and knowledge to drive innovation and technological advancements in my career.

Background

Born and raised in Ibadan, Oyo State, Nigeria, I graduated from Comprehensive High School Aran Orin in 2021 with an excellent academic record. My high school education provided a solid foundation in computer science, sparking my interest in pursuing higher education in this dynamic field.

Why Study in China?

As a prospective university student, I'm drawn to China's thriving tech industry and innovative ecosystem. Studying computer science in China will provide me with:

1. World-class education: Renowned universities offer rigorous programs and cutting edge research opportunities.
2. Cultural immersion: I'll delve into China's rich culture, learn Mandarin, and engage with diverse backgrounds.
3. Career opportunities: China's booming tech industry offers a wide range of job prospects and networking possibilities.

I'm excited to tap into China's vibrant tech scene, gain hands-on experience, and develop a global perspective. This experience will equip me with the skills and knowledge necessary to succeed in computer science.

My personal study plan

As I prepare to embark on my four-year journey to earn a Bachelor's degree in Computer Science in China, I am excited to outline my detailed study plan.

First Year (2025-2026)
Semester 1 (September 2025 - January 2026)

- **Introduction to Computer Science**: I plan to grasp the fundamental concepts of computer science, including data structures, algorithms, and software design.
- **Programming Fundamentals**: I will focus on learning programming languages such as Python, Java, or C++.
- **Discrete Mathematics**: I aim to study mathematical structures and their applications in computer science.
- **Academic English Writing**: I intend to enhance my academic writing skills.
- **Chinese Language and Culture I**: I am excited to begin learning the Chinese language and gain an understanding of Chinese culture.

Semester 2 (February 2026 - June 2026)
- **Data Structures and Algorithms**: I will learn data structures and algorithms for problem-solving.
- **Computer Systems**: I plan to understand the basics of computer systems, including hardware and software components.
- **Database Systems**: I aim to study database concepts, design, and management.
- **Web Development**: I will learn web development basics, including HTML, CSS, and JavaScript.
- **Chinese Language and Culture II**: I will continue developing my language skills and deepen my cultural understanding.

Second Year (2026-2027)
Semester 3 (September 2026 - January 2027)
- **Operating Systems**: I plan to understand the principles and mechanisms of operating systems.
- **Computer Networks**: I aim to study computer network fundamentals, protocols, and architectures.
- **Software Engineering**: I will learn software development methodologies, design patterns, and testing techniques.
- **Artificial Intelligence and Machine Learning**: I am excited to explore AI and ML basics, including neural networks and deep learning.
- **Intermediate Chinese Language I**: I will advance my language proficiency and cultural understanding.

Semester 4 (February 2027 - June 2027)
- **Human-Computer Interaction**: I plan to understand user-centered design principles and human-computer interaction.
- **Data Mining and Warehousing**: I aim to learn data mining techniques, data warehousing, and business intelligence.
- **Computer Security**: I will study computer security threats, vulnerabilities, and protection mechanisms.
- **Cloud Computing**: I plan to understand cloud computing concepts, architectures, and applications.
- **Intermediate Chinese Language II**: I will further enhance my language skills and cultural knowledge.

Third Year (2027-2028)

Semester 5 (September 2027 - January 2028)

- **Advanced Algorithms**: I plan to learn advanced algorithms for problem-solving, including dynamic programming and graph algorithms.
- **Computer Vision**: I aim to explore computer vision concepts, including image processing, object recognition, and machine learning.
- **Natural Language Processing**: I will study NLP basics, including text processing, sentiment analysis, and language models.
- **Elective 1: Data Science**: I plan to understand data science concepts, including data visualization, statistical analysis, and machine learning.
- **Chinese Business Culture and Practices**: I am excited to gain insights into business practices in China.

Semester 6 (February 2028 - June 2028)

- **Research Methods in Computer Science**: I will apply research methods in computer science, including literature review, research design, and experimentation.
- **Entrepreneurship and Innovation**: I plan to learn about entrepreneurship, innovation, and startup development in the tech industry.
- **Elective 2: Internet of Things**: I aim to understand IoT concepts, including device communication, data analytics, and applications.
- **Elective 3: Blockchain and Cryptography**: I will study blockchain and cryptography basics, including security, privacy, and applications.
- **Internship/Practical Training**: I am excited to gain practical experience in a computer science setting.

Fourth Year (2028-2029)

Semester 7 (September 2028 - January 2029)

- **Capstone Project I (Research Proposal and Literature Review)**: I plan to develop a research proposal and conduct a literature review.
- **Advanced Topics in Computer Science**: I aim to explore advanced topics in computer science, including AI, data science, and cybersecurity.
- **Elective 4: Human-Computer Interaction Design**: I will learn HCI design principles, including user-centered design, usability, and accessibility.
- **Elective 5: Business Intelligence and Analytics**: I plan to understand business intelligence and analytics concepts, including data visualization, statistical analysis, and machine learning.
- **Seminar on Current Issues in Computer Science**: I am excited to participate in discussions on current computer science trends and issues.

Semester 8 (February 2029 - June 2029)

- **Capstone Project II (Research Findings and Presentation)**: I plan to present my research findings and conclusions.
- **Comprehensive Exam Preparation**: I will prepare for the final comprehensive exams.
- **Career Development and Planning**: I plan to learn about career development, job search strategies, and professional networking.

- **Elective 6: Special Topics in Computer Science**: I aim to explore special topics in computer science.

Conclusion

This proposed study plan outlines my academic goals and practical training opportunities, ensuring I'll be well-equipped to succeed in the rapidly evolving field of computer science. I am excited to embark on this educational journey and explore the opportunities that China has to offer. Upon graduation, I plan to pursue a career in computer science, driving innovation and technological advancements.

Thank you for considering my application.

Sincerely,

Ajiboye Yusuf Olamide