BACKEND DEVELOPER ROADMAP
ADTC X IGDTUW

1. **Select a Programming Language**
   Begin by choosing a backend programming language, such as JavaScript, GO, Python, Java, Ruby or Rust to establish a strong foundation in backend development.
   Recommended - JavaScript , GO
   RESOURCE:
   - JavaScript - Resources for JS were given in Frontend Roadmap
   - GO
     https://go.dev/doc/ - Official GO documentation
     https://www.youtube.com/watch?v=un6ZyFkqFKo - GO best tutorial on Youtube
     https://gobyexample.com/ - Annotated Example Programs

2. **Learn a Version Control System and Repo Hosting Services, usually people go with Git and Github.**
   https://cs.fyi/guide/git-cheatsheet - GIT Cheatsheet
   https://www.youtube.com/watch?v=Ez8F0nW6S-w&pp=ygUQZ2l0IGFwbmEgY29sbGVnZQ%3D%3D - GIT Tutorial
   https://www.youtube.com/watch?v=wpISo9TNjfU - Difference between Git and Github

3. **Next Step, Learning Relational Databases**
   Gain proficiency in relational databases, such as MongoDB, MySQL, and PostgreSQL, to effectively manage and organize data in backend systems.
   Recommended - PostgreSQL
   RESOURCE:
   - https://www.youtube.com/watch?v=SpfIwlAYaKk - PostgreSQL Tutorial
   - https://www.postgresqltutorial.com/ - Article to Learn

4. **Learn About APIs**
   https://aws.amazon.com/what-is/api/ - What is an API?
   https://www.youtube.com/watch?v=ByGJQzlzxQg - Video

- **Rest API**
   https://www.redhat.com/en/topics/api/what-is-a-rest-api - Article
   https://www.youtube.com/watch?v=-mN3VyJuCjM - Video

5. **Authentication**
- **JWT**
   https://www.akana.com/blog/what-is-jwt - Article for JWT
   https://www.youtube.com/watch?v=7Q17ubqLfaM - Video tutorial for JWT

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