

Backend RoadMap

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learn a high and low level language (Rust and Python)
   - basic (syntax)
   - mid (syntax comprehention)
   - adv (oop concetps)
protocols concepts
   - socket (ip, port, packets)
   - http protocol and server(request and response object content)
   - API
   - middelwares
   - authorization algorithms
   - MVC/MVT pattern
   - websocket protocol
   - realtiming and push notifications
   - multithreading concepts
       - events
       - pubsub channels like zmq and redis
       - async future io object stream handlers
           - redis streams
           - spawn workers
           - arc and mutex
           - select event loop
           - jobq channels
       - actors
           - mailbox
           - message passing between other actors using pubsub patterns
           - message queue using jobq channels
           - event loop handler
           - message scheduling
               - tokio::time
               - tokio crontab
data storage concepts
   - postgres db
   - mongo db
   - redis
   - ORM models and schemas and serializers
cryptography concetps
    - hasing and KDF algorithms like SHA, argon2 (seeds and entropy)
   - public key digital signatures algorithms like ED25519 and ECDSA curves
   - tools like pgp and openssl
devops concepts
   - VPS setup
   - reverse proxy and load balancing (nginx)
    - docker
low level concepts
   - graph alorithms and concepts
   - decompiling and decrypting
tools
   - django
   - django rest framework
   - Actix web
```

Backend RoadMap 1