ZHYPARA ABDIEVA

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Skills

- Python | Flask | DynamoDb | JavaScript | React | Node.js | Express | HTML | CSS | AWS Lambda | AWS Elasticache | MySQL | Unix
- NoSQL | Redis | Unit Testing | OOP | SQLAlchemy | Cloud Services | Git | REST API | EC2 | Github
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack

Experience

Software Engineer @ Solomon Markets, Ltd.

October 2021 - August 2022

Improved security of the system by designing and implementing item level encryption on sensitive user information
- Utilized AWS Key Management System for managing encryption keys
- Updated backend APIs to encrypt user PII data
- Redesigned backend APIs to decrypt encrypted data for authorized users

Designed and implemented a caching protocol which decreased database costs and reduced database traffic by 85%
- Authored solution by adding caching layer for common data accesses and identified tools to execute solution
- Utilized Redis and AWS Elasticache for the caching layer and implemented the cache invalidation protocol with AWS Lambda
- Deployed as a distributed cache cluster for fault tolerance, high throughput, and high availability

Deployed sports betting exchange production environment in the UK region
- Organized the infrastructure requirements for all backend services
- Executed deployment of betting exchange
- Monitored and tested deployment to ensure accuracy

Software Engineering Intern @ Solomon Markets, Ltd.

July 2021 - October 2021

Developed a framework that simplifies integrating a new sport into the existing system, reducing development time by 70%
- Developed data model and system changes required to integrate tennis into the existing system
- Implemented essential changes within codebase
- Completed project ahead of deadline and presented project to management for review

Improved consistency and reliability of read APIs through API implementation and integration testing
- Assessed which missing read APIs the frontend required
- Analyzed backend system to determine which APIs needed to be created or updated
- Ensured consistent and reliable results from APIs by leveraging Pytest framework for integration testing

Education

University of California, Berkeley, *Coding Bootcamp Certificate*

January 2021 - July 2021

Kyrgyz State Technical University, *B.S. in Food Science and Technology*

September 2015 - May 2018

Projects

Weather or Not | *JavaScript, HTML, CSS, Git*

Enhanced user experience by developing frontend application for locating events and activities
- Utilized Google Maps Geocoding and Google Places API to recommend nearby activities given a user's location
- Displayed weather conditions and forecasts in a user's location using Weather API
- Deployed finished project to meet assignment requirements

E-commerce backend | *Express.js, Node.js, MySQL, Sequelize, Git*

Optimized product inventory management with design of REST API to create new products and update system
- Collected existing inventory and updated description, pricing, and product category
- Tested POST, PUT, DELETE, and GET API routes using Insomnia
- Readied REST API and launched project