

Boyue(Olivia) Zheng

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Objective: Seeking a **Software Development Engineer Full-time** position

Education

Georgia Institute of Technology

Atlanta, GA

M.S. in Computational Science & Engineering, GPA 3.85/4.0

Jan. 2020 - May 2021 (Expected)

- Courses: Database Systems, Algorithm, Big Data Systems & Analytics, Machine Learning, Information Security
- Teaching Assistant of Game AI (CS7632, 2020 Fall)

Renmin University of China

Beijing, China

Bachelor of Economics, GPA 3.24/4.0

Sep. 2015 - June 2019

Skills

Programming: Java, Python, JavaScript, Go, C/C++, SQL, Scala, HTML/CSS

Database: MySQL, MongoDB, Redis

AWS: S3, EC2, CloudWatch, Lambda, DynamoDB

Big Data: MapReduce, Spark

Frameworks: Spring, Flask, React, Node.js

Work Experience

Application Development Engineer Intern, ADP

Atlanta, GA

Authentication and Identity Management DevOps team

Summer 2020

- Created visualization Splunk dashboards with Splunk search processing language to continuously monitor and send alerts for 100+ Apps' authentication-related metrics at both infrastructure and App levels. Automated forwarding log data of Apache HTTP servers to Splunk using Ansible
- Implemented REST API with API Gateway and created AWS Lambda function with Python to manage EC2 instances, authenticated by Cognito User Pools
- Built Jenkins CI/CD pipeline of Authentication Gateway with Bitbucket, Docker and Ansible to apply code and configuration changes on Apache Servers

Project Experience

Atlanta Movie Online System Design

- Analyzed IFD and specified EER Diagram for the business logic of Customer-Employee-Oriented system
- Designed relational schema to support all the functionalities and developed MySQL Database
- Implemented Web front-end with JavaScript & JQuery & Jinja2 & Bootstrap4 and Python Flask back-end with RESTful API to provide easy online ticket service for customers, and allowed employees to manage movies and theaters

Ticket+: Event Search and Ticket Recommendation

- Designed an interactive web page for users to search events and purchase tickets utilizing AJAX technology
- Created Java servlets with RESTful APIs to handle HTTP requests and responses. Built NoSQL database with MongoDB to capture real business data from Ticketmaster API
- Designed algorithms to implement business recommendation, like content-based recommendation
- Deployed to Amazon EC2 to handle 150 queries per second tested by Apache JMeter

GTHomes – A Rental Web Application for Georgia Tech students

- Collected house price, groceries/restaurants distribution data from zillow, Yelp API using python and web crawler
- Analyzed data using different ML algorithms to add price prediction, ratings calculation and similarity recommendation features for the app
- Developed main page with Google map of Atlanta, rating labels and search menu bar using React and Node.js