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PROFESSIONAL EXPERIENCE

Software Development Engineer II 2016 - Present

Groupon Seattle, WA

- Develop multiple customer facing websites which serves more than 2 millions requests per day on average.
- Own monthly commitment delivery, ranging from clarifying requirements to securing QA sign-off.
- Compose engineering plans and proof of concepts based on business requirements and present them.
- Ensure services are capable of handling traffic load by improving their efficiency, performance, and resiliency on a regular basis.

EDUCATION

M.S. in Computer Science
Northeastern University

B.S. in Applied Mathematics
University of Washington

RECENT PROJECTS

Feed 1010

JavaScript, AngularJS, Apache Cordova, Python, Flask, MySQL

- Illustrated mock-ups and redesigned aquaponics.systemsbiology.net.
- Integrated Google's Google+ API for user authentication and utilized Maps API to display map.
- Established common API contracts with other teams, totaling around 25 developers.

Gringotts

JavaScript, Apache Cordova, Node, Express, MongoDB, Cryptography

- Architected and tested the whole application stack from backend to frontend.
- Researched various encryption algorithms, the degree of protection, as well as their ease of integration.
- Incorporated Stanford JavaScript Crypto Library (SJCL) for encryption and Barcode Scanner to interpret QR Code containing parameters to generate two-step-authentication token.

Property Rental

Java, Dropwizard, Ruby, Swagger, Hibernate, PostgreSQL, Continuous Integration

- Led a team of 4 to develop the backed for an application similar to Airbnb.
- Held weekly scrum meeting to keep the team up-to-date, resolve uncertainty, and distribute tasks followed by discussing responsibilities and assigning them to team members.
- Tuned Swagger for easier maintenance of documentation and integrated Codeship for agile, continuous, and test-driven-development.

Vertical Search Engine

Python, Elasticsearch, Vector Space Retrieval, Language Model, Page Ranking

- Compiled Python script to crawl over 30000 webpages overnight while still respecting website's robot.txt and maintaining at least a second delay between requests made to the same host.
- Implemented TF-IDF, Okapi-TF, Okapi-BM25, Laplace Unigram LM, Jelinek-Mercer Unigram LM, as well as Google's Page Ranking algorithm to calculate document ranking.
- Designed web interface based on Calaca to search for relevant articles stored in elasticsearch.