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PROFESSIONAL EXPERIENCE

Software Development Engineer II   2016 - Present
Groupon   Seattle, WA
JavaScript, Backbone, React/Preact, Node, Express, Java, Swagger, SQL, Ruby, Rails
- Develop multiple customer facing websites which serves more than 2 millions requests per day.
- Own monthly commitment delivery, ranging from clarifying requirements, overseeing engineering plans, building prototypes, to securing QA sign-off.
- Build customer-facing third party integration interface, enabling the company to onboard partner estimated to bring in $10.6 millions annualized net operating balance.
- Led team in migrating services to multiple data centers for better resiliency and higher uptime.
- Built another third party integration portal for merchants to reduce friction, which results in estimated annual net operating balance increase of $3.0 millions.

EDUCATION

M.S. in Computer Science   **B.S. in Applied Mathematics**
Northeastern University   University of Washington

RECENT PROJECTS

Gringotts
JavaScript, AngularJS, 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, SQL
- 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.