Howard Nguyen

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Education

University of California, Berkeley

3.5 GPA

2017 - 2018

Summer 2014

B.S. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Graduated May 2015

· Coursework: Artificial Intelligence, Algorithms, Computer Architecture, Databases, Data Structures, Machine Learning, Graphics

Experience _____

BACK-END ENGINEER

Modsy

Django, MySQL, AWS, V-Ray

- Built and scaled a custom, in-house 3D render job pipeline that increased throughput by 3X · Saved customer success 20 hours/week by creating an order management system with automated partial and full product refunding
- Improved query times by 50% and unified data access patterns by creating a data access layer for products and 3D render jobs
- Refactored and removed 20,000 lines of code within the first 3 months
- Increased unit test coverage from 58% to 80% by standardizing good coding practices and review
- Improved site reliability after benchmarking and refactoring expensive APIs and queries
- · Created a release tool to automate deploys and release note creation that decreased deploy time by 5 hours/week
- Created an asynchronous job to parse and convert 3D asset files into V-Ray renderable files
- Provided real-time support for critical bugs using Bugsnag, Papertrail, Fullstory, and CloudWatch

Captricity Django, PostgreSQL, Celery

FULL-STACK ENGINEER

- · Designed and created a new regex-like model, from scratch, to support forms with pages that are optional, repeating, and out of order
- Increased job throughput by using Celery to asynchronously batch Amazon Human Intelligence Tasks (HITs) based on perceived effort, task type, and completion time
- Decreased job turnaround-time by building near real-time repricing of undesirable HITs
- Increased system reliability by migrating a part of job pipeline into a separate microservice
- Decreased system downtime through throttling and automatically splitting large jobs that consumed excessive resources
- Improved customer turnaround time by prioritizing jobs based on service level agreement(SLA)
- · Ensured system scalability via benchmarking, optimizing Postgresql queries, and segregating Celery infrastructure
- · Provided real-time support during system outages using Airbrake, Splunk, NewRelic, and custom monitoring integrations
- · Mentored two summer full-stack interns and helped them deliver core improvements on form setup and configuration

Natero Java, Hadoop MapReduce, Pig

- Built a JSON configuration compiler to chain Hadoop MapReduce jobs and perform cohort analysis on large datasets
- Implemented client retention rate and "layercake" plot visualizations using d3
- · Created a custom LRU Redis cache with locking for parallel operations and manual garbage collection

Skills

SOFTWARE ENGINEER INTERN

Proficient with: Python, Java, PostgreSQL, Django, Flask, MATLAB

Experience with: C/C++, Elixir, Celery, Ruby on Rails, MySQL, MongoDB, Riak, AWS EC2/S3/EBS/CloudFormation

Familiar with: HTML/CSS, Javascript, Angular2, React, MIPS assembly

Personal Projects _____

Present	Family Dog Rescue, volunteer
2016	Lyft Bug Bounty , dicovered and reported a bug allowing unrestricted coupon creation
2016	Matcha , built a budgeting and personal finance Flask application

Smaug, built an invoicing and autoshop management Rails application for Balboa Automotive

2015 Service

2014 Rap Cloud, built a rap phrase aggregator build for LinkedIn Hacker Games