Daniel Vu Dao

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EDUCATION

The University of Texas at Austin   Bachelor of Science - Computer Science, May 2016

TECHNICAL SKILLS

Proficient in Java, Javascript, Python, SQL
Comfortable with Linux, Git, SVN, noSQL, Flask, NodeJS, Express, SparkSQL, Hive, Hadoop, Spark, Elasticsearch, AWS Redshift, Bash
Exposure to C, ReactJS, Scala, Django, HTML/CSS, LESS

WORK EXPERIENCE

Civitas Learning; Austin, TX – Software Engineer   *Summer 2016 to present*
Software Engineer on two products known as Illume Courses / Students aimed at increasing student retention
- Implemented product features such as user tracking, adding filter count logic, and surfacing extra data to the client using tools such as SparkSQL, Scala, NodeJS, PostgreSQL, AWS Redshift, etc.
- Responsible for debugging a wide variety of production issues, which ranged from database issues such as invalid mappings / data to server side issues, such as gateway timeouts
- Wrote documentation which allowed other engineering teams to gain insight into the product and learn how to debug production issues for Illume Courses / Students
- Assisted with making partner data within filters non mutually-exclusive, resulting in $1> million ARR
- Implemented dynamic filters for a specific category, allowing partners to see raw data and speed up product deployment / data validation by roughly 2 - 3 weeks
- Refactored the database schema which allowed users to see datasets outside of a time constricted window, resulting in an ARR increase for the company and less production issues for four other teams
- Gave guest lectures at The University of Texas at Austin to aid recruiting efforts, which resulted in a new hire and company exposure

The University of Texas at Austin; Austin, TX – Undergraduate TA   *Spring 2016*
Undergraduate Teaching Assistant for CS327E Elements of Databases
- Held office hours, developed / graded exams, and the final class project with a professor and grad student

DirecTV; Los Angeles, CA – Software Engineering Intern   *Summer 2015*
Intern on Authentication Services working with NodeJS to create a microservice for authentication
- Extracted authentication out of a monolithic codebase and reimplemented a microservice in NodeJS to be used as an internal authentication tool, along with adding extra Java endpoints
- Interfaced with existing AES/RSA APIs to handle the authentication in NodeJS
- Wrote integration tests, unit tests, and bash scripts to handle deployment processes of the microservice

Rougemark.com; Austin, TX – Software Engineer   *Summer 2014 – Fall 2014*
Engineer on the backend team who was responsible for data management / cleansing via CMS integration
- Integrated a content management system which synchronized with database models and was used for client data cleansing using Python / Django
- Prototyped an ETL pipeline with BeautifulSoup and Python to cleanse XML data feeds from partners

SOFTWARE PROJECTS

StockBriefs – A web application aimed towards informing users about stocks using Naïve Bayes and neural network machine learning using Python / Azure Machine Learning
Scenic View – A mobile application geared at taking the most scenic routes given a start and end location implemented in Javascript, HTML/CSS, and Apache Cordova
Facebook Bot – A cron job run daily to scrape through the university's auction page and notify subscribers about Macbook sales via SMS / Facebook message using the Twilio API and a Python Facebook library

VOLUNTEER EXPERIENCE

TEALS; Austin, TX – Teaching Assistant   *Fall 2016 – Summer 2017*
Volunteer at Austin Achieve Public High School who worked with a classroom to help facilitate a CS curriculum
- Graded exams, created class material, and held lectures to high school students about Computer Science

Austin Digital Inclusion Projects; Austin, TX – Technical Contributor   *Fall 2015*
Volunteer at Austin Digital Inclusion Project who worked to create a WordPress site for the city of Austin
- Created and maintained a WordPress site which aimed to decrease technical illiteracy in Austin