Abhishek Zaveri - *Software Engineering*

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WORK EXPERIENCE

UC Davis Information and Education Technology
March 2016 – August 2016 (Davis, CA)
Application Development Intern

o   Participated in two-week Agile Scrum sprint process developing both back/front-end features for ServiceNow IT service management tool
o   Utilized Javascript-based ServiceNow proprietary language to produce over 30 new client scripts, UI Action scripts, and server-side scripts
o   Created new request management features that automate processes such as employee onboarding, account validation, and software requests within IT department
o   Collaborated with QA leads to perform testing on new features for every release, using JIRA's ticketing software to document
o   Wrote documentation notes for features developed each sprint

UC Davis School of Medicine
July 2015 – March 2016 (Davis, CA)
IT Technician

o   Setup large scale computer systems for staff members and medical doctors conducting research
o   Performed advanced diagnosis of system failures using Active Directory, Credant DDP, Virtual Machine
o   Provided end user assistance to medical students and researchers

UC Davis Graduate Studies
January 2015 – June 2015 (Davis, CA)
Webmaster

o   Managed web content and assisted in on-going front-end development of site with the Drupal framework
o   Worked side by side with lead developer to validate PHP scripts

PROJECTS

University Registrar Database – December 2016
Python & SQL

o   Designed and built a database which provides all student, course, and instructor related data when queried
o   Parsed over 90 CSV files containing twenty years of university data into proper SQL format using Python scripts and loaded into PostgreSQL database with Python psycopg2 library

o   Wrote extensive SQL queries within Python scripts to provide results such as most difficult courses, students with highest GPAs, and best performing majors

Spam Classification (Machine Learning) – February 2017
MATLAB

o   Implemented a Support Vector Machine with a Gaussian kernel to classify large datasets of user emails as spam or non-spam
o   Preprocessed emails using MATLAB methods to normalize URLs, email addresses, etc. and convert words to into vocabulary list to discern spam features
o   Trained SVM with preprocessed datasets and determines both a training and test accuracy of algorithm

Fixit (iOS) – January 2017
Swift

o   Developed an iOS application that allows users to select any image from Tumblr/Flickr or their library and use a variety of filters to process the image
o   Permits user to compare images to one another, adjust intensity of filters, and customize their own image processing filter
o   Uses the Core Data framework to store persistent objects of URLs for Flickr or Tumblr images and ensure images are loaded even if user quits app

Video Search (Computer Vision) – May 2015
MATLAB

o   Implemented a video search algorithm allows users to select features from a single image and retrieves all images containing these queried regions
o   Wrote MATLAB methods to build a 'visual vocabulary' that finds the most similar frames in a ranking order

TECHNICAL SKILLS

o   **Languages** – C++, C, Python, MATLAB, SQL, Swift
o   **Tools** – JIRA, ServiceNow, XCode, PostgreSQL, MySQL, Unix/Linux

EDUCATION

o   **B.S. Computer Science, University of California, Davis,** Class of 2017

CERTIFICATIONS

o   **Machine Learning** – Stanford University, February 2017
o   **iOS App Development Basics/App Design and Development for iOS** – University of Toronto, January 2017