NEAL PATEL

http://justnealpatel.com

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EDUCATION

Texas A&M University
December 2018
Computer Science (B.S.)
Minor in Cybersecurity, Business

RELEVANT COURSES

PAST YEARS
Design & Analysis of Algorithms
Cloud Computing
Computer & Network Security
Information Storage & Retrieval
Data Structures & Algorithms
Programming Languages
Robotics and Spatial Intelligence

SKILLS

MOST EXPERIENCE
Python, Java

EXPOSURE TO
C++, HTML, CSS, JavaScript,
AWS (ECS, RDS, S3), iOS Development

TOOLS & FRAMEWORKS
AWS (ECS, RDS, S3), Flask, Django,
jQuery, Angular, Spring Boot,
Hibernate, jUnit, React,
NumPy, Pandas, MySQL,
PostgreSQL, MongoDB, Git, Xcode

HONORS / AWARDS

Microsoft Imagine Cup Invite
(from HackTX '17)
2018 Grace Hopper Conference Scholar
First Open Source Contribution (Doc.)

CONNECT

LinkedIn:	/justnealpatel
Github:	/justnealpatel
DevPost:	/justnealpatel

INTERESTS

Open Source, Machine Learning,
Computer Security,
Volunteering (Education, Animal Shelters)

EXPERIENCE

Software Engineer | Infosys
Richardson, TX | May 2019 – Present
o Optimized efficiency of generating data discrepancy reports by 100% between dealers' inventory and Toyota's own inventory by remodeling the data discrepancies within S3 using Node.js and Elasticsearch
o Helping to analyze and maintain web applications that were in charge of Toyota's core interaction with their dealers

Undergraduate Researcher - Deep Learning | Texas A&M University
College Station, TX | December 2017 – November 2018
o Evaluated sketch recognition techniques as a base for understanding and optimizing core deep learning techniques such as convolutional and deep neural networks with Python and Keras
o Advanced methods on how transfer learning can help to prevent common reiterations for training models needed as a base model for the current task which would allow for common tasks to be used with already-trained neural networks of similar domains

Full Stack iOS Developer | FashioNXT
Portland, OR | September 2017 – August 2018
o Developed a portion of the backend using the Parse server to serve relevant relational data and S3 to store unstructured data which minimized the amount of data being stored locally
o Designed the entire frontend using Swift in addition to constructing seamless integration with the backend platform through implementation of various cloud functions using Javascript

Software Developer Intern | Swearingen Software
Houston, TX | Summer 2017
o Created and fixed data component fields and relations by re-establishing communication throughout the stack between PostgreSQL database to PHP and JS code by writing efficient retrieval queries in PostgreSQL for various business requirements
o Refactored, modularized and documented the existing codebase for better code reuse and extension which saved the company 100+ hours of combing through the legacy codebase

INVOLVEMENT

Texas A&M Computing Society | Member
Texas A&M University, TX | 2015 - 2018
o Involved in technical talks and hands-on workshops
o Participated in various hackathons such as HackRice, TAMUhack, HackTX

CodePath | Student Ambassador, Student
Texas A&M University, TX | 2016
o Advised and motivated 25 students to be able to successfully architect solutions to complex technical problems that led to exponentially increasing their fundamental problem-solving skills
o Participated in an intensive 12-week bootcamp which covered major topics and techniques to architect and implement polished iOS applications using the Swift programming language

PROJECTS

Project Partner Finder | Web App • Python • Django • MySQL • Angular
Built a web app in Django and Angular.js which allows for individual developers to connect with one another by using common skill sets and needed skills needed to collaborate on projects.

Films with Friends | Web App • Java • Spring Boot • PostgreSQL • OMDB API • Angular
Utilizes the Open Movie Database API and relationships to recommend which movies that you and your friends are most likely to enjoy using user and item-based collaborative filtering

Quick Look Up | iOS App • Swift • Twilio API • AWS (EC2, RDS) • MySQL • PHP
Utilizes the Twilio API to create an interactive experience to report lost items in a specific environment and allows for the owner of a lost item to use the app as a lost and found system.

Spam Detection System | Web App • Python • Flask • MySQL • React
Utilized several machine learning techniques such as naïve bayes, decision trees, k-nearest neighbors to separate which types of emails are flagged.