Divya Godayal

Coder | Drummer | Singer | Poet

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Research, Design, Develop.

Education

University of Southern California	Los Angeles, CA
Masters in Computer Science	August 2017 to May 2019 (anticipated)

Course Work: CSCI 561 - Artificial Intelligence, CSCI 570 - Analysis of Algorithms, CSCI 544 - Applied Natural Language Processing

Work Experience

PhaseSpec Corp., AMI-USC | Software Developer — May 2018 to Present
- Developing an end-to-end mobile application using PhoneGap, iOS native libraries and Plotly.js. The app does analysis on the hyperspectral imaging datasets and presents it to the user in the form of Plotly density graphs and segmented images.
- Reduced the load time for the app from 8 seconds to 4 seconds for a data of size 20MB.
- Designed and developed the file management interface for the application for seamless access to the TIFF files and related data.

University of Southern California | Course Grader — January 2018 to April 2018
- Graded assignments and exams for CSCI 104 - Data Structures and Object Oriented Design.

Kiota Labs Pvt. Ltd. | Senior Software Engineer — April 2015 to June 2017
- Led a team of developers to implement an end-to-end food delivery platform for the web and mobile.
- Handled technical design, code reviews, client interfacing, requirement elicitation, estimations and project delivery.

BitCot Inc. | Senior Software Engineer — October 2014 to March 2015
- Conceptualized, designed and implemented an iOS application called Do Not Disturb based on custom profiles and geo-locations.

Infosys Limited | Nordstrom | Senior Software Engineer — September 2011 to September 2014
- Engineered features on Nordstrom.com using RESTful Web APIs and ASP.NET MVC framework.
- Reduced the page load time for category navigation on mobile website by 50% revamping the navigation functionality.

Projects

Do Not Disturb — Swift | iOS Framework | SQLite
- Designed and developed an iOS application that lets users set the DND based on geo-location and custom profiles.
- Created a widget and interactive notifications giving the user flexibility and ease of exploiting DND at its best.

Part-of-speech tagger using Hidden Markov Model — Python
- Built a part-of-speech tagger using Trigram and Bigram Hidden Markov Models, Viterbi algorithm and Laplace Smoothing.
- Obtained a test-set F1 score of 0.91 on the provided dataset with the Trigram implementation.
- Published a two part series for the same on freeCodeCamp publication on Medium.

Hotel Review Classifier — Python
- Implemented Vanilla and Averaged Perceptron to classify hotel reviews as True/Fake and Positive/Negative.
- Achieved a test-set F1 score of 0.93 on the provided dataset with the Averaged perceptron.

Baby Lizards Solver — Python
- Designed a solution for the Baby Lizards problem which is basically N-Queens problem but with obstacles.
- Implemented BFS, DFS and Simulated Annealing algorithms for solving the problem.

Coderchef Kitchen — Python | C++
- Founder and maintainer at Coderchef Kitchen, an actively growing Git repository of detailed solutions to interesting coding problems.

Travel App — Swift | iOS Framework
- Engineered a one stop shop iOS app to get relevant place information from google place APIs.

Skills

Languages: Python, Swift, HTML, CSS, C, C++, C#, SQL, JavaScript, jQuery
Frameworks: PhoneGap, iOS Framework, Microsoft .NET, ASP.NET MVC, ASP.NET Web API
Tools: Jupyter Notebook, Git, XCode, Visual Studio

Awards and Extracurricular

- Technical writer @freeCodeCamp, one of the largest tech publications on Medium. Published articles related to NLP and algorithms.
- Won On-The-Spot award in Q2, 2014 at Infosys Limited as top performer in retail unit.
- Secured 1st rank in college-level C programming event in 2010 organized by Indian Society for Technical Education.