

JONATHAN NGUYEN

Career-focused job seeker, anxious to obtain an entry-level Software Engineering position to help launch career while achieving company goals.

CONTACT

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SKILLS

Programming

Java ●●●●●●
Python ●●●●●●
C ●●●●●●
Assembly ●●●●●●
HTML/CSS ●●●●●●

Frameworks

Django ●●●●●●
Spring Boot ●●●●●●
Ruby on Rails ●●●●●●
React ●●●●●●

Operating Systems

MacOS ●●●●●●
Linux ●●●●●●

Software & Tools

Machine Learning ●●●●●●
(e.g. Tensorflow, Keras, ...)
Visualisation ●●●●●●
(e.g. matplotlib, seaborn, ...)
Data handling/analysis ●●●●●●
(e.g. numpy, scipy, pandas, ...)
Office ●●●●●●

Languages

English ●●●●●●

COURSEWORK

- Design and Analysis of Algorithms
- Automated Learning and Data Analysis
- Optimization and Algorithms
- Neural Networks
- Database Management Systems
- Object Oriented Design and Development
- Software Engineering
- Computer Networks
- Data Structures
- C and Software Tools

CERTIFICATES

North Carolina State University Computer Programming Certificate, Spring 2020

WORK HISTORY

📅 06/2017 - 07/2020
📍 Parsons, Raleigh

Associate Road and Highway Engineer

- Constructed plans for noise walls, provided detail sheets for retaining walls, and made typicals to match plans on a \$350 million design build proposal for Raleigh I-440.
- Provided QA/QC, generated pavement removal sheets, and supplied detail sheets for roundabouts on a \$270 million rebuild of I-270 in Missouri.
- Prepared demolition plans and details for intersections on West Lake Corridor design build pursuit.

EDUCATION

📅 08/2020 - 12/2021
📍 North Carolina State University, Raleigh

Master of Science Computer Science

📅 08/2013 - 05/2017
📍 North Carolina State University, Raleigh

Bachelor of Science Civil Engineering

PROJECTS

Web Application

- Teamed with 2 people to deliver an eLearning Commerce web application using Ruby on Rails.
- Implemented backend functionality, such as creating a user, registering for a course, and allowing students to make reviews for teachers.

Data Analysis

- Analyzed over 400,000 lines of potential question duplicate pairs, with the goal to identify which questions on Quora share the same intent as existing questions.
- Evaluated three different classifiers such as CNN, LSTM, Naive Bayesian to compare the predictions against an evaluation metric.
- Investigated different methods to extract features for Natural Language Processing and implemented Word2vec and Bag-of-words to models.

Course Registration Application

- Programmed a course registration system in Java that allows students to register for classes at a university.
- Completed functionality for admitted students to register, courses to have wait lists and enrollment caps. Applied Object-Oriented Programming methodologies and tested using Jenkins.

Requirement Management Software

- Built a requirement management system in Java that maximized developers ability to keep track of large requirements. Helping engineers determine priorities and decide which features should be implemented.
- Coded the functionality for the user to submit, assign, and track progress of each requirement to make sure all tasks can be completed in a timely manner.

Database Management Systems

- Collaborated in a group of 4 to design and construct a database system for WolfWR, a WolfCity wholesale-store chain.
- There will be many different operations that the database will maintain such as process information, maintain inventory, billing, and transaction records.

GENERAL SKILLS

Problem Solving

Communication

Organization

Work Ethic

Adaptability

Multitasking

Self-Motivation