SWAPNIL KHA

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EDUCATION

New York University Tandon School of Engineering, Brooklyn NY   May 2021
Bachelor of Science in Computer Science, Minor in Business Studies from NYU Stern School of Business
• Relevant Courses: Data Structures and Algorithms, Object Oriented Programming, Computer Architecture, Design and Analysis of Algorithms, Operating Systems

Harvard University, Cambridge MA   2015 to 2016
Summer Program
• Relevant Courses: CSCI s65-g: Intro to Mobile App Development Using Swift and IOS, CSCI 100: Great Ideas In Computer Science With Java

SKILLS

PROGRAMMING LANGUAGES: Python, Java, C++, C, Groovy, C#/.NET, Swift, Javascript, HTML, CSS, Liquid
DATABASES: MySQL, NoSQL, MongoDB
TOOLS/FRAMEWORKS: GatsbyJS, Grails, Xcode/iOS, Node Red, Git, Jekyll, Strapi, NodeJS, Networking: TCP/IP, LabView
OPERATING SYSTEMS: macOS, Linux, Windows

EXPERIENCE

Sirvisetti Systems
Software Engineering Intern · Princeton, NJ   June 2019 to Aug. 2019
• Implemented an app in Groovy that sends an email to various customers, using an id number as an input, by searching a MySQL database and using SQL commands to check if that id exists for a given date
• Used GatsbyJS to add customer information to Strapi Content Management System (CMS) and display them when a user requests it

Software Engineering Intern · Princeton, NJ   June 2018 to Aug. 2018
• Designed and built an assistant adapter using Google Actions and IBMs Node-Red development environment
• Developed a default response system, using Node-Red flows, for an inquiry about a customer's sales commission from a predefined database
• Wrote a program to convert an EDI string, which contains customer sales information, to JSON format in Node-Red, which the assistant adapter parses to calculate customer sales commissions

GoPeer and Wyzant Tutoring
Computer Science/Math Tutor   Mar. 2019 to Present
• Tutoring middle and high schoolers in introductory computer science using Java, Python, and Swift, both in-person and online. Also helping middle and high schoolers in subjects such as Geometry, Algebra 2 and Calculus.

PERSONAL PROJECTS

Finstagram (MySQL/Python)   Nov. 2019 to Dec. 2019
• Designed a Flask application that resembles Instagram where a user can post a picture, add friends to friend groups, search a photo by poster, search a photo by tag, and create a friend group

Personal Website (Jekyll/Liquid)   July 2019 to Present
• Using Jekyll and BootstrapCSS, implemented an email form using php, as well as html links to social media/additional contact mediums

Car vs Rideshare Comparison Calculator (C#/.NET)   June 2019 to July 2019
• Implemented a program that calculates whether it is more cost-efficient to buy a car or commute via rideshare over a 5 year period, using user input such as miles traveled per year, mpg of car, and annual insurance cost

Tic Tac Toe (iOS/Swift)   June 2018 to Aug. 2018
• Built Tic-Tac-Toe with Xcode using a 3x3 board to be played by two users. Designed a layout to make the game suitable for all ages, and optimized the layout to be compatible with the iPhone X

ACTIVITIES

NYU Machine Learning Club · Event coordinator of the executive board   Jan. 2020 to Present
• Advertise events on social media pages and help host workshops on introductory machine learning methods in python

NYU Class Activities Board · Member   Sept. 2017 to Present
• Assist club leaders in planning study breaks, game nights, and free food events for the Class of 2021