samarth sarin

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software engineer

+ employment

Abercrombie & Fitch
IT E-commerce Software Engineer Intern

New Albany, OH
June 2019 to Aug. 2019

- Identified inconsistency in databases and proposed a solution to the executive team
- Developed a page that enables customers to personalize A&F highest selling product using javaScript and JQuery
- Maintained and improved code quality by identifying and fixing bugs using JavaScript and CSS to ensure consistent user experience with tools such as Jira, Jenkins, Grunt, and Docker

Zione Solutions
Software Engineer Intern

Farmington, MI
May 2018 to Aug. 2018

- Implemented a ticketing service to streamline communication between customers and consultants in order to more effectively deliver tech solutions
- Incorporated Python, SQL, Flask, and HTML/CSS to store user account and ticket information in data tables
- Developed authentication/authorization methods on user account creating to ensure standard security practices
- Internally released project being used by consultants at Zione Solutions

Michigan Medicine Urology
Office Assistant

Ann Arbor, MI
June 2017 to Apr. 2018

- Organized 700+ patient records by date of service, type of document, and facility, for the use of doctors to compare and analyze new reports with the old, allowing for a more effective treatment plan for patients

+ projects

Traveling Salesperson – C++ Project

Nov. 2018 to Dec. 2018

- Implemented an arbitrary insertion algorithm which retrieves an upper bound for solving the optimal TSP
- Used the branch and bound technique to only explore "promising paths" in order to solve this problem as optimally as possible

Simulated Relational Database – C++ Project

Oct. 2018 to Nov. 2018

- Emulated a SQL relational database using maps and unordered maps to store data and perform SQL commands under time and memory constraints

Letterman – C++ Project

Sept. 2018 to Oct. 2018

- Implemented a BFS and DFS search that utilized string manipulation to map the shortest path from a start and end target
- Traversed and mapped through dictionaries with 100,000 entries in under 7 seconds

Piazza Post Classifier – C++ Project

Nov. 2017 to Dec. 2017

- Created a program that uses binary tree machine learning which reads in piazza posts and determines the category of the post

+ volunteering

Michigan Health Aid · Happy and Healthy Kids Volunteer
Ann Arbor, MI

- Provided health related knowledge to groups of 10 underprivileged children in first and second grade, allowing them to increase their autonomy for health related decisions in their daily lives
- Developed creative and enjoyable games that foster a more engaging way to learn than from a standard lecture

+ education

University of Michigan – Ann Arbor
B.S. Computer Science 2020
Focus in Chemistry

+ relevant coursework

Data Structures and Algorithms (EECS 281)
Database Management Systems (EECS 484)
Computer Security (EECS 388)
Computer Organization (EECS 370)
Foundations of Computer Science (EECS 376)

+ skills

PROGRAMMING LANGUAGES
C++
Python
Visual Basic
JavaScript

SKILLS
Full Stack Development
HTML/CSS
Jinja
Agile Teamwork
Docker
Grunt
Jira
JQuery
Jenkins

DATABASES
SQL

FRAMEWORKS
Flask

LANGUAGES
Fluent in Hindi
Conversational in Spanish

INTERESTS
Avid guitarist, performed for a 300+ size audience
Dancer – Michigan Bhangra Team