

Nicole Ramanathan

About:

Nicole Ramanathan is a software developer, who designs concise code, finds and fixes bugs, and executes professional level programs. She regularly cultivated creative solutions by building programs earning a certification in C++. Working in the Mortgage industry for five years, allowed her to work with others on different business projects over the years. In all her work she puts forward well-structured impactful products using both her technical knowledge and intense drive. She enjoys collaborating with others who do the same. She is a fast learner. And she has a good understanding of the principles of OOP (data abstraction, polymorphism, inheritance and encapsulation). Nicole works hard with precision and candor to assure the best possible results for whatever team or environment she is in.

Technical Skills:

Programming: C++, C#, Java, JavaScript, Python, PHP, SQL, Spring, Jackson, JPA, NodeJS, Babel

Software: Salesforce/CRM, Eclipse, VS Code, PGAdmin, Netbeans

Education:

Advanced Certificate in C++ Programming *Washtenaw Community College* 09/18-08/20

- wrote C++ code and develop applications utilizing object-oriented programming techniques

Bachelor of The Arts in Anthropology *University of Michigan* 09/08-05/12

Programming Experience:

FastTrack

Twitter-like RESTful API Project

- Constructed Tweet and Hashtag Entities using JPA with Postgres Database
- Completed Post and Get Methods for reposts, replies and other processes within Service
- Modified Delete Methods for Tweets, Hashtags and Users
- Created Context Mapping by working on Depth First Tree Traversal Through Tweets with collaborators
- Tested functionality of app using Postman

Environment: Spring Boot, Java

Cook Systems

06/23-present

Other Projects

Higher Lower

02/23-02/23

- Set Highest Possible Number
- Validate that guess is a Number
- Track all past guesses in an Array
- Prevent duplicate guesses

Environment: JavaScript, HTML, CSS

Poker Game

11/22-11/22

- Encapsulated Card class in Hand class
- Architected a different value for each Hand type
- Completed overall Game with two players
- Created game in Java and then recreated it in C#

Environment: Java, C#

Other Courses

Data Structures using C++

06/20-07/20

- Traversed data by creating lists (including linked lists), stacks, queues and heaps
- Structured binary trees and advanced data structures
- Demonstrated proficiency in using recursion

Web Programming using Apache, MySQL and PHP

01/20-05/20

- Developed frontend projects using HTML elements (textboxes, forms, and inputs)
- Developed PHP code (logic, arrays, loops, operators, post and get statements, variables and functions)
- Constructed and utilized resourceful databases with MySQL tables (CRUD)

Intro to Programming with Java

08/19-12/19

- Worked with conditional logic, logical, relational and assignment operators as well as input/output streams in Java
- Built a method for different math operators to be used in the main function

Object Features in C++

08/19-12/19

- Worked with structs, enumerations, classes and pointers on different C++ programs
- Built a program for a class of fractions that used exception handling and a copy constructor

Intro to Programming with C++

01/19-05/19

- Edited, compiled, and executed C++ programs with arrays, functions, structs, loops and conditions
- Created a program that computed the amount of drywall and spackle that were needed for different sized rooms
- Created a program that accounted for different book records using structs
- Used different sorting and searching algorithms

Intro to Computer Science

08/18-12/18

- Completed decimal to binary conversion as well decimal to hexadecimal conversion
- Queried for different items in a database in SQL using *from*, *where*, *between* and *like* commands

Work Experience:

Marketing Data Intern

T-Cetra

01/22-05/22

- Pulled reports from the CRM to help run competitions between our clients
- Deduplicated lists to determine the winner of competitions
- Created Excel Pivot Tables to keep account of how much merchandise our clients were purchasing
- Sent emails through Salesforce to contact clients about new deals

Assistant Appraisal Processor

MB Mortgage

01/14-07/18

- Created Excel Reports to document the large swath of data used
- Filed Documents to store for further use by other departments
- Sent customer emails to notify customers of Appraisal filing
- Created concise reports for use within the department