

Karanbir Bains

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Education

University of California, San Diego Class of 2018

Major: Cognitive Science w/ Influence in Human Computer Interaction

Minor: Computer Science

Skills

C & C++

Intermediate

Able to comfortably use the STL C++ libraries and can use the basics of GDB in the C languages. Also know how to collaborate with others using version control with Git.

Java

Intermediate

Have used Java for a little over a year and have worked with both the Eclipse IDE and the Vim text editor.

Web

Intermediate-Advanced

Have worked with HTML, CSS, Bootstrap, JavaScript, Firebase, React, AWS, and Heroku.

Relevant
Coursework

Software Tools & Techniques, Discrete Mathematics, Algorithms & System Analysis, Computer Organization & System Programming, Advanced Data Structures, Design and Analysis of Algorithms, Design Techniques for Digital Systems.

Projects

Spell Checker

Made a program written in Java using hash tables that would check for spelling errors.

Given a dictionary and a file of words the program suggests words if the given word is spelled incorrectly.

The cases it will check for include, a wrong letter, extra letter, one less letter, and adjacent transposed letters.

Huffman
Compression

Implemented a Huffman code file compressor and decompressor in C++.

Used a tree of nodes and made my own bit input and bit output streams to write and read compressed files.

Biodiesel
Processor

Programmed the Arduino for the Automated Processor. The Processor takes in waste vegetable oil and turns it into biodiesel

Web Portfolio

<https://karanbir-bains.herokuapp.com/>

This is my online portfolio, it includes some of the projects that I have done using my web development skills.

Certifications

Amazon Web Services

AWS Associate Certified Solutions Architect

Certification validates ability to effectively demonstrate knowledge of how to architect and deploy secure and robust applications on AWS technologies.

University of California, San Diego

Coding Boot Camp

Completed Full Stack Boot Camp based on the MERN Stack.