Abhinoor Singh

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EDUCATION

Boston University, Bachelor of Science, Boston MA   September 2020 - May 2023
Major: Computer Engineering, **GPA:** 3.5/4.0
Related Courses: Software Eng I, Computer Architecture, Embedded Systems, Data Structures & Algorithms
University of Massachusetts Lowell, Bachelor of Science, Lowell MA   September 2019 - May 2020
Major: Computer Engineering, **GPA:** 3.9/4.0, **Dean's list:** Two Semesters

EXPERIENCE

Liberty Mutual Insurance, Full Stack SWE Intern, Boston, MA   May 2022 – August 2022
- Responsible for modernizing current legacy systems from IBM WebSphere to well architected microservice using Java and Springboot, and triage support for existing microservices.
- Tested new microservice functionality using Postman for calls to REST API. Monitored microservice operations using AppDynamics.
- Documented microservice usage on team wiki, as well as creating swagger docs for endpoint testing.
- Designed microservice to marshal and unmarshal data between JSON, XML and Java POJOS through object-oriented programming to allow communication between API's using different technologies.

Singh PC Repair, Computer Repair, Business Owner, Boston, MA   September 2016 – September 2021
- Built 100's of custom PC's based on requirements set by clients.
- Provided diagnostics for computer hardware repair to private clients and various businesses.
- Performed software or hardware repairs as needed on various types of IoT devices.

AAA Auto Tech, IT Manager, Boston, MA   September 2015 – September 2020
- Provided solutions to technical issues occurring with the network, or computer systems used.
- Used C++, and Python to create scripts and software to manage inventory, and track customer experiences to allow for 25% increase in customer satisfaction.

PROJECT WORK

Portfolio Calculator, SFML/C++/Python Software
- Managed a team of four people to create a software to track and report cryptocurrency, and stock assets using various API's and file I/O.
- Created an easy-to-use interface via SFML with features such as asset tracking and displaying daily stock information. Developed python script to get information from API, then transferred to C++ via file I/O and displayed using SFML.

Self Driving Car Robot, ESP32(C), JavaScript, HTML, Raspberry PI
- Constructed a self-driving RC car using ESP32, servo's, push buttons, LED's, and LIDAR Sensors.
- Developed software in C to control RC car movement to stop for objects, and avoid collisions.
- Designed a PID algorithm to manage speed, and distance from wall during drive times.
- Used HTML, JS and a raspberry PI to host a website to control car functionality through WIFI via UDP.

PayrollCalc, C++ Software
- Developed a C++ script using STL library to generate total weekly payroll for each employee.
- Used basic graphics libraries to allow entry of each employee's information, and total payroll calculated based of user entered equations.

EXTRACURRICULAR ACTIVITIES AND LEADERSHIP

Liberty Mutual TechStart Hackathon 2022, LibertyDictionary, Boston MA   July 2022 - July 2022
- Lead a team of six members in competition with 154 interns and 26 teams through 16 hour timeframe.
- Performed market research to determine scope of project, and designed web wireframe of chrome extension applet using Figma, and created stories on Trello for work distribution.
- Developed chrome extension using JS, HTML, and CSS that defined common insurance terms to simplify online insurance quoting process for consumers with text-to-speech functionality for accessibility.
- Won 1st place in Hackathon and received very positive feedback from senior level professionals.

Hack Hardware 2021, RobotHelper, Boston MA   April 2021 - April 2021
- Designed and built a robot that would open and close a designated door, programmed in Arduino C
- Achieved 2nd place in final overall standings out of 60+ projects in two-day hackathon.

SKILLS

- **Software:** Java, C++, Python, MATLAB, C, Arduino, Assembly (AL), Javascript, Node.js, Express,js, Spring Framework (Spring Boot), Postman, SOAPUI, RESTFUL API's, Figma, CSS, Chrome Extension API
- **Project Management Tools:** Git, Jira, Kanban Boards, Agile Workflow, Bamboo, Confluence, and Trello