RANJODH SINGH

SOFTWARE ENGINEER

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EDUCATION

University of California San Diego**,** San Diego, CA 2022

BS Computer Science

- 3.7 Overall GPA
- Coursework in Data Structures and Algorithms, Object-Oriented Programming, and Software Engineering

TECHNICAL SKILLS

Programming Languages: Python | C/C++ | Java | Javascript | Typescript | HTML5 | CSS
Frameworks: React.js | Microsoft .NET
Tools: Git | Github Actions | JUnit | Eclipse | VSCode | Visual Studio | Office365

WORK EXPERIENCE

Costco Wholesale - FRONT END ASSISTANT June 2018 - Present

- Assisted clients with technology purchases, questions, and problems in the use of computer hardware and software
- Played a key role in exceeding sales goals and increasing overall profitability
- Implemented new strategies to improve customer service and increase customer satisfaction ratings
- Assisted in inventory management and restocking merchandise to ensure availability for customers
- Collaborated with other departments to streamline processes and improve overall efficiency
- Resolved customer complaints and issues in a prompt and professional manner

Staples - Sales Associate July 2017 - June 2018

- Assisted clients with technology purchases, questions, and problems in the use of computer hardware and software
- Provided proactive desktop support as well as assisted with in-store computer repair
- Provided support for computer setup/installation, network troubleshooting, network installation, and printer troubleshooting
- Experience assembling and troubleshooting off-the-shelf system components along with configuring OS and BIOS configurations

AFA CyberPatriot - Club President September 2014 - June 2017

- Spearheaded the formation and ongoing development of the school's AFA CyberPatriot club, recruiting and mentoring a diverse team of students passionate about cybersecurity and STEM disciplines.
- Organized weekly training sessions to enhance team members' skills in network security, ethical hacking, and cyber defense, leading to a significant improvement in team performance in national competitions.
- Led the team to 2nd place in the California state championship in the National Youth Cyber Defense Competition, demonstrating exceptional strategic planning and problem-solving abilities.
- Managed the club's budget, securing sponsorships and resources to support team activities, including software licenses, hardware, and competition fees.
- Developed and implemented a comprehensive training curriculum that covered key areas such as network administration, software vulnerabilities, and cybersecurity ethics..

- Conducted regular performance assessments and feedback sessions, ensuring the continuous development of team members' skills and addressing areas for improvement.

TECHNICAL PROJECTS

Bullet Journal- https://github.com/rsingh84/Bullet-Journal

- Designed and built an online course organizer for UCSD students by saving text and images for each date entry
- Assisted in the completion of the development process by monitoring completed programming and by ensuring that the completed work meets design specifications
- Co-designed the navigation of pages and layout of journals using HTML, CSS, and JavaScript in order to create a unique and responsive user interface
- Implemented Firebase to enable user authentication for web page application in order to retain user information

AI Sudoku Solver- https://github.com/rsingh84/AI-Sudoku-Solver

- Developed an AI-powered Sudoku solver in Python that takes in a puzzle and accurately solves it, neatly displaying the solution for user reference.
- Implemented arc consistency algorithm to efficiently propagate decisions and backtracking techniques to effectively find solutions

Huffman File Compression- https://t.ly/GDmQ

- Developed Implemented lossless data compression algorithm written in C++ in order to compress files and encode file descriptions
- Decompresses files by reading file header to build min heap of frequencies in order to decode bits with up to 80% efficiency