

Vedaant Patel

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Education

University of California, Irvine

September 2022 - Current

- Related Coursework: Data Structures and Algorithms, Computer Architecture, Machine Learning, Databases, Information Retrieval, Software Testing

Santiago Canyon College

August 2020 - June 2022

Experience

Developer Intern, Farmers Insurance

June 2023 - August 2023

- Significantly decreased vulnerability detection time from 5 days to 2 hours, encompassing all APIs.
 - Collaborated with XFT to ensure the smooth integration of the vulnerability detection process into the development pipeline.
 - Enhanced security and reduced manual efforts by developing and debugging a CloudBees Jenkins automation tool to identify vulnerabilities within APIs.
 - Implemented APIs on MuleSoft platform to establish a centralized approach to gather information across all APIs hosted on AnyPoint Platform.
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Projects

[Synq'd Mobile App](#)

- Developed a collaborative music app, using React Native, allowing users to request and vote on songs that get automatically added to the host's Spotify queue.
- Integrated Spotify Web API to provide users real time playback, queue information, and support for automatic queueing functionality.
- Created a secure Node JS server to manage session and voting functionalities with little overhead.

[Memory Allocator Simulator](#)

- Implemented a best-fit strategy memory allocator in C to reduce memory fragmentation by 15%.
- Enhanced the performance by implementing memory block coalescing, effectively preventing memory fragmentation.
- Allows for efficient resizing of allocated memory, enhancing flexibility and resource utilization.

[Minesweeper Solver](#)

- Accurately solves problems with a success rate of 80%.
- Implemented a DFS algorithm and backtracking to solve worlds in less than 3 minutes.

[Graph Coloring Game](#)

- Created an educational game to allow users to learn how the Greedy Algorithm works.
 - Designed and implemented front-end using HTML and JavaScript to better illustrate the graph coloring algorithm.
 - Users compare their own colored version of the graph to the algorithm's version.
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Skills

Languages and Frameworks: Python, C++, C, Java, JavaScript, TypeScript, React, React Native

Development Tools: Git, Docker, VS Code, Node JS, Firebase, Jenkins, Heroku, MuleSoft