

# Vedaant Patel

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## EXPERIENCE

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### Developer Intern

June 2023 – August 2023

*Farmers Insurance*

- Reduced vulnerability detection time from 3 days to 5 hours for all APIs, leading to faster response and improved security measures
- Implemented REST APIs on MuleSoft to centralize information gathering across APIs on AnyPoint Platform, streamlining data management
- Collaborated with XFT to integrate the vulnerability detection process smoothly into the development pipeline, ensuring seamless and efficient operation

## PROJECTS

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### Satellite Image Segmentation | *Python*

- Implemented a UNet model to segment satellite imagery and identify civilizations without electricity
- Hypertuned the UNet model using Wandb sweeps, resulting in a validation accuracy of 70%
- Researched the IEEE GRSS 2021 dataset to identify optimal satellite bands to achieve higher segmentation classification accuracy

### Synq'd Mobile App | *React Native, Expo, JavaScript, Node.js*

- Developed a full-stack mobile application using with Node.js serving a REST API with React Native as the frontend
- Integrated Spotify Web API to provide users real time playback, queue information, and support for automatic queuing functionality
- Utilized web sockets for seamless integration between client and server resulting in minimal overhead

### Memory Allocator | *C*

- Built a memory allocator to simulate the process of dynamic memory management
- Enhanced performance by implementing memory block coalescing, effectively preventing memory fragmentation and optimizing memory usage
- Implemented a best-fit strategy to reduce memory fragmentation by 15%

### Minesweeper Solver | *C++*

- Programmed a minesweeper solver using DFS and backtracking to accurately solve problems in less than 3 minutes with an 80% accuracy

## SKILLS

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**Languages:** Java, Python, C, C++, SQL, MySQL, JavaScript, TypeScript, HTML, CSS

**Frameworks:** React, React Native, Node.js, Expo

**Developer Tools:** Git, Docker, Firebase, VS Code, IntelliJ, Eclipse, Jenkins, Heroku, MuleSoft

## EDUCATION

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### University of California, Irvine

September 2022 – June 2024

*Bachelor of Science, Computer Science*

Related Coursework: Data Structures and Algorithms, Machine Learning, Databases, Information Retrieval

### Santiago Canyon College

August 2020 – June 2022

*Associate of Science, Computer Science*

Related Coursework: Java Programming, Programming Concepts, Computer Architecture