siliconmint

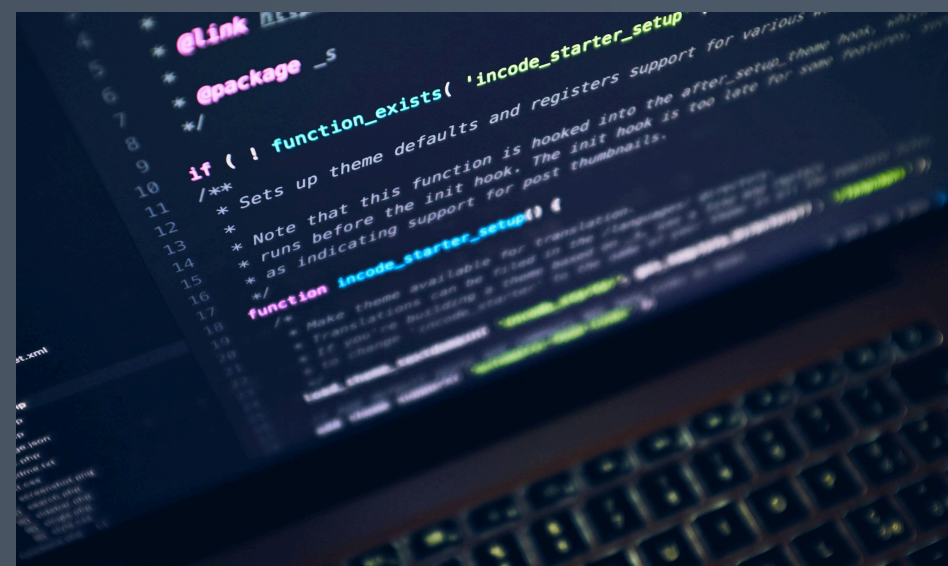# Streamlining Rentals with Advanced Technology

Our partner offers a platform designed to simplify the process of creating leasing agreements. Beyond facilitating these agreements, they provide a unique service that assists individuals by covering the security deposit on their behalf. This innovative approach allows renters to partially recover their security deposit throughout the rental period, easing financial burdens and enhancing the leasing experience.

The challenge

Business

We set out to develop an application focused on simplifying leasing agreement management. This task began with detailed requirements collection and the creation of an intuitive UI/UX design. A key goal was to incorporate a feature that allows users to easily make payments, enhancing the overall leasing experience by facilitating smooth financial transactions.

Technical

We designed the entire platform from the ground up, encompassing a variety of services. Our approach covered the full cycle of development, starting from requirement gathering and making all necessary technical decisions, through to delivery and ongoing production support.
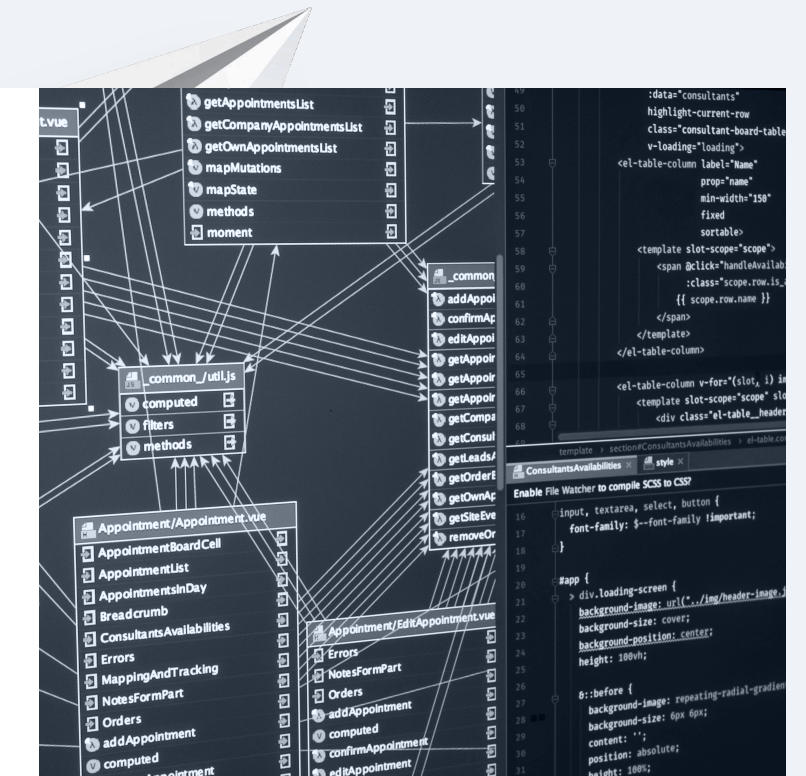
Solution

1 UI/UX Design

Designed the entire platform from scratch, focusing on a seamless and intuitive user experience that meets the evolving needs of our users, with continuous enhancements based on user feedback.

2 Architecture Development

Developed a robust platform architecture that meets critical non-functional requirements such as reliability, efficiency, and scalability, ensuring a solid foundation for current and future needs.

3 AWS Cloud Infrastructure

Implemented the infrastructure using Terraform scripts to create a reliable and scalable 'Infrastructure as Code' solution in the AWS Cloud, enhancing deployment efficiency and environment reproducibility.
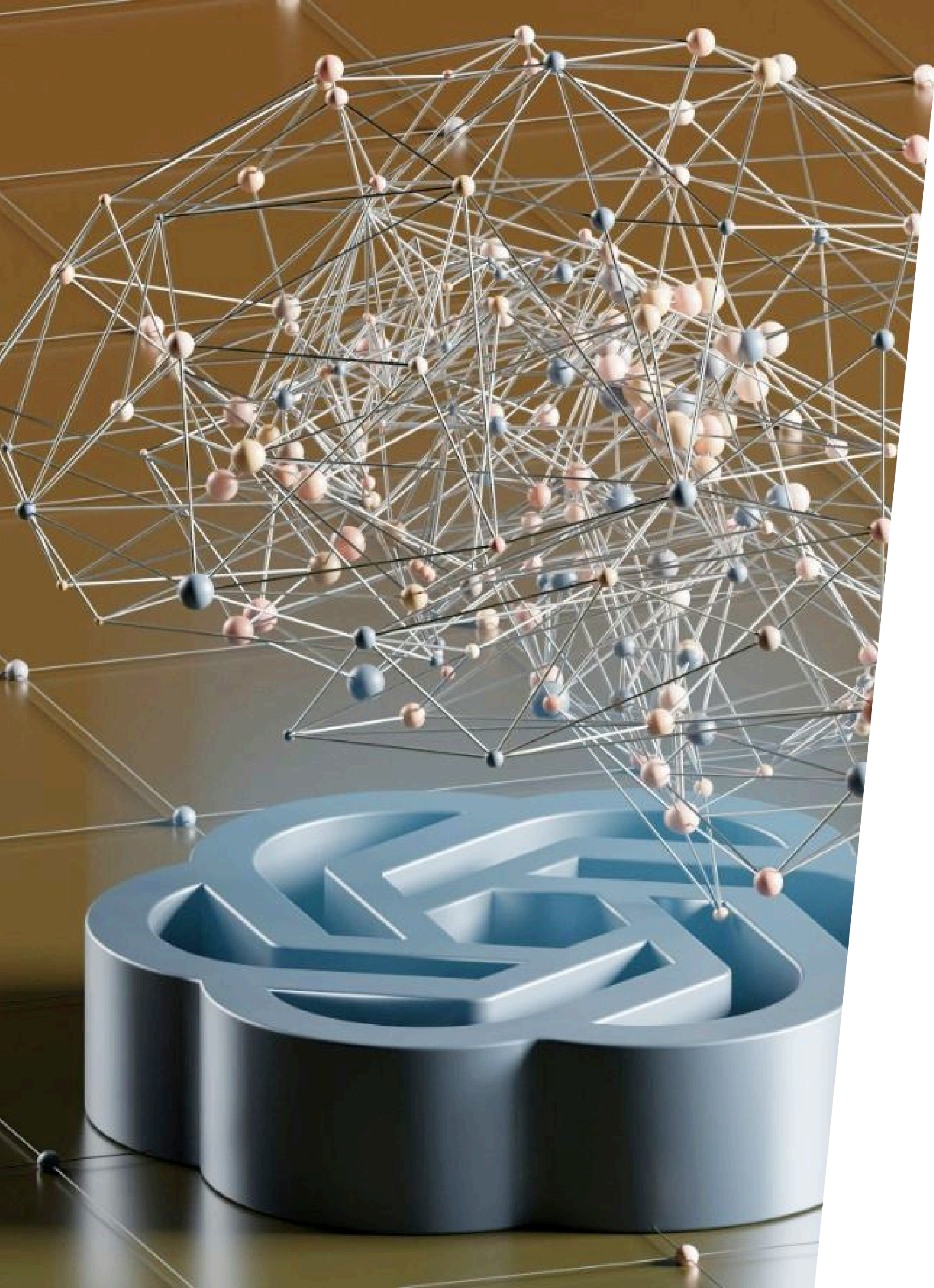

4 CI/CD Pipelines

Configured Continuous Integration and Continuous Deployment (CI/CD) pipelines using GitHub Actions, facilitating streamlined updates and ensuring high-quality releases through automated testing and deployment processes.

5 Project Execution

Spearheaded the full development lifecycle of the project, from initial development to testing and delivery, creating all functionalities from scratch and ensuring that each feature adheres to the highest standards of quality and user satisfaction.

Other data

The AI model, trained by partner lawyers, assists clients in understanding their leasing agreements and proactively preventing disputes.

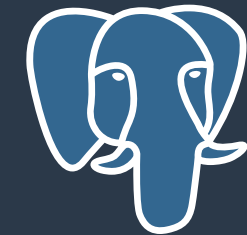Integrated with Adyen, one of the leading payment providers, to streamline financial transactions.

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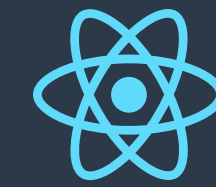# Technologies

AWS
(ECS, Fargate, Lambda)

Github
(Github Actions)

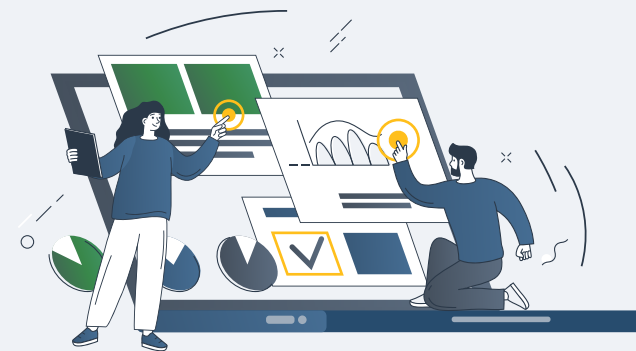**PostgreSQL**

Node.js

React
React Native

NestJS

Tailwind CSS

Adyen
Components

Team

Scrum team
focused on payments

Scrum team
focused on Core functionality

Kanban team
business analysis

Architecture

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Payment portal

Adyen WebComponent

Payment provider

Payment Status Queue

Back End Payment module

Adyen Back End

Payment Data Base