

# Dylan Ledermann

Hermosa Beach, CA

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## EDUCATION

### University of California San Diego

GPA: 3.63

Bachelor of Engineering in Computer Engineering

Coursework: Software Engineering, Operating Systems, Data Structures and Algorithms, Computer Architecture, AI, Network Architecture

San Diego, CA

Sep 2021 - June 2025

## TECHNICAL SKILLS

**Programming Languages:** Javascript & Typescript (React, Node, NextJS, & Express), Python (Django), C# (.NET 9), SQL (PostgreSQL), Java (Spring)

**DevOps & Deployment Tools:** Docker, Firebase Hosting, Render, AWS, Postman, MongoDB (NoSQL)

**Skills:** Agile development, Git/GitHub, Testing, REST APIs, Wireshark

## PROJECTS

### Meetup | Full-Stack Event & Social Web App

*TypeScript, NextJS, Axios, .NET 9, PostgreSQL, JWT, Docker, Playwright, Jest, xUnit, Nginx, AWS, Github Actions*

- Delivered a scalable web platform enabling thousands of users to seamlessly create and join meetups, leveraging a strongly typed TypeScript frontend with Axios interceptors for improved UX and reliability
- Strengthened security by implementing robust JWT-based access and refresh token flows, reducing unauthorized access risks and ensuring smooth user authentication
- Engineered a high-performance RESTful backend with .NET 9 and PostgreSQL, achieving reliable data persistence and API responsiveness under concurrent user load
- Enhanced product quality and deployment confidence through comprehensive testing strategies, including Playwright end-to-end tests, Jest frontend unit tests, and xUnit backend tests
- Accelerated development and deployment cycles by containerizing the entire stack with Docker and automating build, test, and deployment pipelines using GitHub Actions CI workflows
- Successfully deployed and maintained the application on AWS EC2, utilizing Nginx for secure reverse proxy, rate limiting to prevent abuse, and HTTPS certification, ensuring high availability and secure access

### AutoWaterer | Full-Stack Web App and Circuit

*Angular, CSS, HTML, Java Spring, Arduino C++, Nginx*

- Created a circuit to monitor the moisture levels of a plant using a capacitive moisture sensor with an Arduino Nano microcontroller relay information to another system and water the plant if the moisture is below a threshold.
- Hosted a web socket from the Nano and connected a Spring backend application to the web socket to collect the moisture levels and store the levels to graphed and analyzed.
- Created an Angular frontend to connect to a separate web socket hosted by the backend to allow users online to view the moisture level and manually water the plant if the moisture is low enough.
- Implemented continuous deployment by hosting the frontend on Netlify with an Nginx reverse proxy and Ngrok port forwarding to connect to the backend for real-time data.

### ReviewSyd | Campus Networking & Class Review Web App

*Django, HTML, CSS, Bootstrap, AJAX, AWS*

- Built a web platform for students to connect, review courses, and find tutors, enhancing academic collaboration
- Developed the backend using Django, with a responsive frontend built in HTML, CSS, and Bootstrap
- Integrated AJAX for seamless asynchronous communication between frontend and backend
- Collaborated in a 5-member team, using GitHub for version control and Agile practices for coordination
- Deployed a working prototype on AWS, demonstrating deployment and cloud hosting capabilities

## WORK EXPERIENCE

### Sacks In The City Cafe

Cashier

Redondo Beach, CA

Jun 2021 – Sep 2022

- Delivered excellent customer service by greeting customers, assisting with inquiries, and accurately processing orders in-person, over the phone, and online
- Prepared ingredients and crafted beverages, including smoothies, juices, and coffees, ensuring quality and consistency
- Maintained a clean and organized front-of-house area to create a welcoming and efficient environment for both customers and staff