

# John Lorenzini

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## EDUCATION

**University of California, Irvine**  
B.S. COMPUTER SCIENCE

Irvine, CA | Sep 2021 - Jun 2025

## EXPERIENCE

### WEB DEVELOPER INTERN | D-BAT

Lewisville, TX | Jun 2022 - Sep 2022

- Spearheaded creation of a fullstack athlete development portal using React and AWS Amplify, significantly improving instructor workflow and customer convenience through statistical availability.
- Unified existing remote development team under a Scrum/Agile methodology, employing biweekly sprints to solve existing tickets and deploy new user experiences.
- Cut data fetching load-times by over 80% through the trimming of established API calls, implementation of local caching, and optimization of search and sort algorithms.
- Connected back-end authorization system with React-Router to separate instructor, athlete and administrator access flows and webpage visibility, centralizing D-BAT Lewisville's technology model around a single website.

### IT INTERN | SPRINGS CREATIVE

Rock Hill, SC | Jul 2021 - Sep 2021

- Wrote PHP and Python scripts to facilitate the reformatting and migration of over 10,000 help desk tickets and 1,000 registered users to a new on-premise help desk platform by utilizing PHP Composer libraries and SupportPal REST API.
- Re-designed, developed and deployed a lightweight internal homepage using HTML/CSS to further progress system launch.
- Managed company physical hardware inventory, facilitated internal help desk requests and mass-updated internal hardware systems.

## PROJECTS

### IRVINESWEEPER

NEXTJS, TYPESCRIPT, REACT, GOOGLE CLOUD, FRAMER

- Awarded "Best Overall" at HackUCI 2023.
- Typescript web game in which users interact with a cartoon-themed map of Irvine, CA, attempting to maintain a monetary balance while avoiding paying rent for Irvine Company properties. Scraped over 11,000 lines of Irvine Company portfolio data, packaged into a Typescript web application and implemented using Google Maps API.

### UCI ML REPOSITORY SEARCH ENGINE

PYTHON, NUMPY, PANDAS, NATURAL LANGUAGE PROCESSING

- Awarded "Most Impactful" at UC Irvine's 2022 Machine Learning hackathon.
- Constructed a comprehensive search engine for UCI's Machine Learning Dataset Repository by training and combining a Spacy keyword search model with a Gensim Latent Dirichlet Allocation (LDA) model, achieving a -3.65 UMass Coherence score.

### MUSIC SNIPPETS QUIZ

PYTHON, FLASK, HTML/CSS, JAVASCRIPT, APIs

- Awarded "Hacker's Choice" at ZotHacks 2021.
- JavaScript web application with a Python Flask backend. Retrieves a users' favorite music from popular streaming platforms such as Spotify and Apple Music, and evaluates them on lyrical identification through a quiz of recognizable song snippets.

## SKILLS

**Languages:** Python, C++, Java, Swift, HTML/CSS, React, Tailwind, JavaScript, MIPS Assembly

**Technologies:** Git, Firebase