John Lorenzini

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EDUCATION

BSc. Computer Science   Irvine, CA | Sep 2021 - Jun 2025
UNIVERSITY OF CALIFORNIA, IRVINE

EXPERIENCE

D-BAT | WEB DEVELOPER INTERN   Lewisville, TX | Jun 2022 - Present

- Spearheaded creation of a fullstack athlete development portal using React and AWS Amplify, significantly improving instructor workflow and customer convenience through statistical availability.
- Unified collected athlete data from four separate hardware platforms (BLAST, HitTrax, Rapsodo & Brave 4D Motion) by constructing a single GraphQL API.
- Cut data fetching load-times by over 50% through the trimming of established API calls and implementation of more efficient 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.

SPRINGS CREATIVE | IT INTERN   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.

PEPSICO | CYBERSECURITY SHADOWING   Plano, TX | Mar 2020 - Mar 2020

- Shadowed PepsiCo's IT headquarters in Plano, TX, learned about important IT responsibilities and duties, as well as cutting edge strategies and platforms utilized by cybersecurity experts.
- Went hands-on with prototype consumer automation technology using key industry concepts such as Deep Learning and Visual Product Recognition in relevant spaces such as Grocery stores.

PROJECTS

UCI ML REPOSITORY SEARCH ENGINE ⬈   PYTHON, NUMPY, PANDAS, NATURAL LANGUAGE PROCESSING

- Awarded "Most Impactful" at UC Irvine's 2022 Machine Learning hackathon.
- Constructed a 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.

QUIZIFY ⬈   PYTHON, FLASK, HTML/CSS, JAVASCRIPT, APIS

- Awarded "Hacker's Choice" at UC Irvine's annual ZotHacks hackathon, an award given to the most impressive team project as chosen by 100+ event attendees, mentors and judges.
- Quizify retrieves a users' favorite music from streaming data and evaluates them on lyrical identification through a quiz of recognizable song snippets.

SKILLS

Languages: Python, C++, Java, SwiftUI, HTML/CSS, React, Tailwind, JavaScript, PHP
Technology: Git, Firebase, Jupyter, XCode, Adobe Creative Suite