

DIEGO A. PENA

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EDUCATION

University of California, Berkeley | Berkeley, CA

Aug 2017 – May 2020

B.A. in Physics | 2019 Summer Undergraduate Research Fellow

Diablo Valley College | Pleasant Hill, CA

Jan 2015 – May 2017

EXPERIENCE

WaiterNow | Remote

Apr 2020 – Present

Frontend Engineer

- Implemented a user feedback feature which employs protocol buffers to communicate with the backend API.
- Built and tested a consumer history tool to allow users to monitor their orders' status and easily resubmit an order.
- Improved the experience of 100+ users by consolidating and streamlining the UI/UX of the 3 Angular/Ionic PWAs.

Brightest | Remote

Sep 2020 – Dec 2020

Software Engineer Intern

- Enhanced user involvement by implementing a media sharing feature linked to user actions on a React/Django app.

DeWaste | Berkeley, CA

Sep 2020 – Dec 2020

Web Development Intern

- Streamlined the data processing and appearance of a reusable React dashboard used to visualize food waste data.
- Implemented a feature to incorporate business hours in the data processing to generate highly tailored insights.

Stamper-Kurn Group | Berkeley, CA

Sep 2018 – Jun 2020

Research Assistant

- Built a Python interface between a data acquisition system (DAQ) and a local server for simultaneous reading, logging, and real-time plotting of 10+ temperature sensors utilizing Object Oriented Programming.
- Presented 3 recent physics publications to the group every 3 months during journal club meetings.
- Designed and documented a printed circuit board and enclosure for a low noise diode current controller.

Match Analysis | Emeryville, CA

Feb 2015 – Sep 2018

Data Collection Specialist

- Increased employee productivity by 15% by streamlining the collection and quality control of soccer data.
- Cleaned and expanded a 1200+ player relational database to minimize player query errors for every game.

Grade Potential Tutoring | Pleasant Hill, CA

Jan 2015 – Feb 2017

Math Tutor

- Assisted 5 high school and college students in improving their math skills using self-developed techniques for different styles of learning, increasing their homework and test scores by 20%.

PROJECTS

NLP on YouTube comments

- Collaborated with 3 developers in a hackathon to create insights for content creators. Implemented sentiment analysis on video comments and fetched the resulting data from a Flask API to an interactive React dashboard.

Tic-Tac-Toe with JavaScript

- Built single and multi-player modes of the popular game which implements the minimax algorithm in a React app.

LEADERSHIP

Physics 153 Undergraduate Mentor

- Empowered an incoming class of 40 physics transfer students by providing academic support via office hours.

Golder Bear Orientation Leader (x2)

- Collaborated with co-leaders to guide groups of 40+ students through two week-long orientation programs.

SKILLS

Python (Django, pandas, scikit), TypeScript (Angular), JavaScript (React, Node.js), HTML, CSS, SQL, Git, Agile/Scrum. LaTeX, Excel, SOLIDWORKS, EAGLE.

Languages: English, Spanish.