

# Franco Dominic Valdecanas

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## EDUCATION

### Sonoma State University – Rohnert Park, CA

August 2016 – May 2020

Bachelor of Science, Computer Science

- Honors: Dean's List (2019 - 2020), Extracurriculars: DII Men's Tennis
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## WORK EXPERIENCE

### Develop For Good – Remote/Stanford, CA

Full Stack Developer

Sep 2020 – Present

- Develop CARE International-Somali Maternal Hospital Delivery App with a team of 5 developers and designers
- Projected to provide for health staff of 20 health facilities in IDPs and increase hospital delivery by 30%

### Self-Employed – San Jose, CA

Tennis-Instructor

June 2015 – Present

- Offer private teaching and hitting lessons to a variety of players ranging from beginners to top ranked juniors
  - Grew clientele by 100-150% from 2016-2019 through references and networking with academies and USPTA certified coaches
  - Direct lesson plans of 5-10 individual clients per week and communicate closely to ensure optimal results in technical and mental improvement
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## PROJECTS

### TennisBot (Discord API, Node.js, Cheerio.js, Heroku)

August 2020 – Present

- Developed Discord's first Tennis bot using Discord's API and Node.JS for backend services, Heroku for application deployment, and Cheerio.JS for mining and scraping 100% of retrievable tennis data
- Created lookup command features for providing ATP and WTA scores, rankings, player profiles, and player statistics
- Maintain TennisBot's functionality and scalability through fixing bugs, writing and refactoring scalable code, and adding new features every week providing for hundreds of users and enhancing server experiences

### Songlyzer (Javascript, Bootstrap, Chart.js, Spotify API)

June 2020

- Developed a responsive website that displays song analytics based on audio features and lyrics using JavaScript and Bootstrap
- Displayed visual statistics by using Chart.js for interactive song analysis of data pulled from Spotify's web API
- Utilized Spotify's algorithms to display measurements of audio features including happiness, sadness, and energy ranked from 0-100 and designed algorithms for lyric analysis charts

### Soundscapes to Landscapes (Deep Learning, Research, MATLAB)

Apr 2020 – May 2020

- Collaborated closely with S2L staff to implement Deep Learning techniques for classifying bird species
- Prepared PCA, SVM, and CNN training and testing models for over 7000 wildlife audio recordings using MATLAB
- Operated remotely with a team of 5 using Zoom and organized weekly sprints for Agile workflow using Trello

### Mock Python Language & Interpreter (C++, Python)

Jan 2020 – May 2020

- Built a mock Python programming language and interpreter for four phased semester project in my Programming Languages course
  - Organized syntax and functionality using custom lexical analyzer for tokenizing and parsing user code and following grammar rules
  - Implemented variable declaration, conditionals, loops, the order of operations, functions, and error handling in C++
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## RELEVANT COURSEWORK

Data Structures, Algorithm Analysis, Database Management, Computer Architecture, Software Development, Machine Learning, Human-Computer Interaction, Theory of Computation, Operating Systems, Programming Languages

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## TECHNICAL SKILLS

**Programming Languages:** C++, Python, JavaScript (ES6), HTML, CSS, SQL, MATLAB, Java, PHP

**Frameworks:** jQuery, React, Node.js, Express.js, BeautifulSoup, Cheerio.js, Bootstrap, GraphQL, Selenium, spaCy

**Databases:** MySQL, MongoDB

**Technologies:** Vim, Git, Visual Studio, Insomnia, Figma, NPM, Pycharm, CLion, Trello

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## ACTIVITIES

### Sonoma State Men's Tennis

Jan 2017 – Apr 2019

- Balanced 30+ hours a week of practice, competitions, and community work while maintaining above 3.0 GPA
- Cooperated with teammates and coaches to acquire a national ranking of 25, second-highest in program history