

Los Angeles, CA
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Denzal Martin

Full-Stack Developer

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Full-stack developer with a teaching background in physics at Stanford. Currently working towards a coding certificate in web development through the University of California, Berkeley Coding Bootcamp where JavaScript, HTML, Node.js, and MySQL were used for various projects. While teaching at Stanford, I engaged with students by walking through physics problems during office hours and during lab experiments each week. During the coding bootcamp, I worked on three projects of at least two other peers where teamwork, communication, and teaching were commonly invoked skills. Step-by-step testing and learning the concepts involved was my approach to solving challenging problems.

PROJECTS

Event Architect, University of California, Berkeley Extension Coding Bootcamp **Aug 2021**

- Created an app that was intended to allow a user to view public/private events that other members created. Once a member, the user has the ability to create events and edit todo list items for that event. Technologies used: Handlebars, Node.js, JavaScript, Express.js, Heroku, Git, MySQL, Insomnia, Sequelize, Fetch API

Jam Map, University of California, Berkeley Extension Coding Bootcamp **July 2021**

- Developed front-end JavaScript to call iTunes' and GetSongBPM's API for generating a list of music that meets user selected criteria. Technologies used: JavaScript, HTML, CSS, Fetch API

SKILLS

Programming/Scripting JavaScript, HTML, CSS, Node.js, MySQL, MVC, Express.js, Handlebars, Python
Soft Skills Teaching, Teamwork, Communication, Problem-Solving, Project Management

TEACHING

Teaching Assistant, PHYSICS 24: Electricity, Magnetism, and Optics Lab **Winter 2021**
Stanford University Stanford, CA

Teaching assistant, PHYSICS 21: Mechanics, Fluids, Heat **Fall 2020**
Stanford University Stanford, CA

Teaching assistant, PHYSICS 24: Electricity Magnetism Lab **Spring 2020**
Stanford University Stanford, CA

Teaching assistant, PHYSICS 46: Light Heat Lab **Fall 2019**
Stanford University Stanford, CA

Teaching assistant, PHYSICS 26: Modern Physics Lab **Spring 2019**
Stanford University Stanford, CA

EXPERIENCE

Research Assistant **Mar. 2019 — June 2021**
Stanford University, Prof. Giorgio Gratta Research Group Stanford, CA

- Analyzed rotational and librational motion of optically levitated microsphere using Fourier and Hilbert transforms with Scipy. Adapted FPGA code in LabView to dampen the librational degree of freedom by >1 order of magnitude. Designed tank circuit to reduce unwanted noise and signals in rotational spectra

Research Student **Oct 2015 — May 2018**
University of California, Merced, Prof. Sayantani Ghosh Research Group Merced, CA

- Used LabView to perform 2-D spectroscopy scan of Mn doped ZnSe quantum dots. Created LabView program to control magnet and read data for Hanle effect measurement. Presented to peers and professors in MACES fellowship meetings.

EDUCATION

Certificate, Coding Bootcamp University of California, Berkeley Extension **June 2021 — Sept 2021**
Master of Science, Physics Stanford University **Aug. 2018 — June 2021**

Performed more than 2.5 years of studies in Ph.D program before withdrawing

Bachelor of Science, Physics University of California, Merced **Aug. 2014 — May 2018**