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Denzal Martin

Full-Stack Software Developer

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Full-stack software developer with a 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 at Stanford, I enjoyed planning, running experiments, and writing Python scripts to analyze the acquire data. During the coding bootcamp, I worked on three projects of at least two other peers where I practiced coding in JavaScript, HTML, and CSS, incorporating extra libraries where needed. 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, React, Node.js, SQL, MVC, Express.js, Handlebars, Python
Soft Skills	Teaching, Teamwork, Communication, Problem-Solving, Project Management

TEACHING

Teaching Assistant, PHYSICS 24: Electricity, Magnetism, and Optics Lab Stanford University	Winter 2021 Stanford, CA
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Teaching assistant, PHYSICS 21: Mechanics, Fluids, Heat Stanford University	Fall 2020 Stanford, CA
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Teaching assistant, PHYSICS 24: Electricity Magnetism Lab Stanford University	Spring 2020 Stanford, CA
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Teaching assistant, PHYSICS 46: Light Heat Lab Stanford University	Fall 2019 Stanford, CA
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Teaching assistant, PHYSICS 26: Modern Physics Lab Stanford University	Spring 2019 Stanford, CA
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EXPERIENCE

Research Assistant Stanford University, Prof. Giorgio Gratta Research Group	Mar. 2019 — June 2021 Stanford, CA
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- 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 University of California, Merced, Prof. Sayantani Ghosh Research Group	Oct 2015 — May 2018 Merced, CA
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- 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
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