

Sierra Dean

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Profile – Sophomore CS/Data student at UC Berkeley with 3 years of Full Stack experience at Sandia National Labs in search of a summer and/or year round internship after losing my current position to COVID-19. Mobile app developer with a fielded app available on iTunes and Google Play. As team player with scrum and agile development experience, a teacher for basic coding and IoT, and a coding mentor to many girls and young women, I bring a cooperative spirit and strong communication skills to any team.

Skills

Full Stack	Angular/HTML/CSS/JavaScript/Bootstrap	Mobile App Development
Java/Data Structures	Python/SQL/Scheme	Introduction to Data Science
Principles and Techniques of Data Science	Discrete Math and Probability Theory	Microsoft Office
Git/GitHub/GitLab	Continuous Integration/Continuous Deployment	Agile Development/Scrum/Kanban
Linear Algebra /Multivariable Calculus/ Differential Equations		Electrical Engineering A

Education

University of California Berkeley, Berkeley, CA Fall 2018 – Present
Computer Science Major, Data Science Minor, GPA 3.4/4.0
MENSA Diane Mossip Memorial Scholarship, 2019
Won a highly selective internship with Disney Parks, cancelled due to COVID-19

Albuquerque Academy (Albuquerque, NM) Fall 2016 - Spring 2018
William H. Kleyboecker Memorial Award for Leadership, Compassion and Enthusiasm in Science, 2018
Desert Vista High School (Phoenix, AZ) Fall 2014 - Spring 2016
GPA 3.9/4 ACT Score 34/36

Work and Coding Experience

Sandia National Laboratories, Albuquerque, NM
R&D Intern, Undergraduate Summer Summer 2019
R&D Intern, High School Year-Round and Summer November 2017 - August 2018 and Summer 2017

- Built front and backend for Report review web application using Angular, HTML, CSS, and Java
- Established Continuous Integration/Continuous Deployment system for Cloud and Micro-service applications using Groovy, Shell, and Bash scripts
- Developed a website database for a defense program as a Scrum Project Team member, including coding and bug fixes in HTML, CSS, Java, and JavaScript
- Front end web development for inventory database application in C#, HTML, and .NET
- Built foundation for developing applications in C# for use in VR headsets (Oculus Rift and HoloLens)

SWE++, Society of Women Engineers (SWE), UC Berkeley Fall 2018 - Present
Committee Chair, SWE Officer

- Started an Outreach group to introduce software development to middle school girls
- Taught Python to 30 middle school girls over 2 6-week, semester long courses
- Taught Designed Intro to Machine Learning, HTML, and CSS workshops and organized check-in/check-out and volunteers during day long “Tech Day” workshop for 100 middle school girls for bi-annual event
- Wrote and maintain club website (<http://sweplusplus.herokuapp.com>)

Lab Assistant for Computer Science Data Structures Course, UC Berkeley Spring 2020 - Present

- Holding Office Hours for homework, project, and lab questions for current students enrolled in the course

Computer Science Education Research, UC Berkeley Fall 2019

- Developing an “Auto-Quiz” system to test student progress that replaces Midterms and Finals for introductory CS class using Python, HTML, and CSS
- Curriculum Development for introductory computer science class utilizing Snap! and hands-on coding techniques including IoT devices and Robotics

Internet of Things Curriculum Development, Albuquerque Academy Fall 2018 – Present

- Developing an Internet of Things Course for HS and Comm College, alongside my former AP Computer Science teacher
- Learning electrical engineering, circuitry, CAD, prototyping, and development skills in the creation of a new IoT device

Iriditech, LLC, Phoenix, AZ
Mobile Applications Developer Fall 2015 – Spring 2016

- Conceived and developed a mobile application (iOS/Android) for a major Phoenix Hospital chain customer in collaboration with a hospital physician. The application tracks and reports concussion recovery. Available on iTunes and Google Play.

Girls Who Code, Albuquerque Academy Fall 2016 - Spring 2018
Student Club Leader

- Team leader and project manager for an “impact project” – leading middle school girls through the process of creating an app to inform the public about immigration. Only team to successfully work through getting a working app on their phones

Interests & Activities.

- Cal Women’s Rugby
- First team Allstate Soccer Player, Captain, and 3 time High School State Champion