VENKATA **ALAPATI**

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Seeking a biomedical engineering degree that will incorporate my previous educational coursework as well as my experiences as a learner, leader, researcher, and volunteer in order to better improve myself and the community around me.

EDUCATION

AUGUST 2019 - PRESENT
ADVANCED EDUCATION STUDENT, FOLSOM LAKE COLLEGE

4.00 GPA. With courses including Calculus 3: Multivariable Calculus, Introduction to Linear Algebra, Differential Equations (in progress), and Introduction to Logic Design (in progress).

AUGUST 2016 - PRESENT
ADVANCED PLACEMENT STUDENT, VISTA DEL LAGO

4.60 GPA and 1570 SAT with courses ranging from AP Physics, AP Computer Science A, AP Calculus, AP Biology, and AP Chemistry. Received the National AP Scholar award from Collegeboard. Graduation in May 2020.

WORK EXPERIENCES

OCTOBER 2019 – PRESENT
CO-FOUNDER, AG-NEE LABORATORIES

- Founded a clothing with two other partners, owning 1/3 of the company assets
- Release high fashion clothing on a season to season basis
- Check out the Fall/Winter 2020 season at https://ag-nee.com/collections/fall-winter-20.

JULY 2019 – PRESENT
TUTOR, VA TUTOR PREP

- Founded VA Tutor Prep to help students in Folsom grow and learn
- Teach students from local high schools and middle schools
- Plan and prepare material to be reviewed each meeting
- Discuss a range of topics from AP Biology to US History

JULY 2019 – PRESENT
CASHIER, TACO BELL

- Serving as cashier
- Responsible for greeting customers both in-store and drive-thru
- Take orders, ensure a clean lobby, and maintain customer satisfaction

JUNE 2019 – JULY 2019

INTERN, HANGER CLINIC

- ➢ Built, assemble, and understood prosthetics and orthotics
- ➢ Explored the anatomy and physiology of the human body and learned more about the kinetic chain as well as body locomotion/physics
- ➢ Delved into surgical procedures and looked into common causes for amputations
- ➢ Explored different building materials and common points of irritation/problems then learned about current solutions.

JUNE 2018 – AUGUST 2018

INTERN, INTEL

- ➢ Worked with the Computer Architecture and Innovation team within the Client Computing Group of Intel
- ➢ Modeled a smart office camera prototype which uses facial recognition to unlock laptops and wirelessly share screens in an office environment
- ➢ Completed project on time and exceeded the initial expectations set by the manager
- ➢ Managed time using the SCRUM/AGILE methodologies
- ➢ Converted an idea into a physical demonstration using the SDLC process
- ➢ Utilized networking, KNN algorithms, and OpenCV image processing

MAY 2017 – AUGUST 2017

INTERN, MISSION CARE PEDIATRICS

- ➢ Shadowed a pediatrician and explored patient interactions
- ➢ Expanded medical knowledge in common illnesses and diagnoses
- ➢ Learned about the professional environment and admin work including answering phones, drafting letters, and managing paperwork.

VOLUTNEER EXPERIENCES

MARCH 2019 – PRESENT

VOLUNTEER, UC DAVIS MEDICAL CENTER

- ➢ Work with the Davis 12 Gastrointestinal Surgical Specialty Unit in order to assist with day-to-day operations and patient interactions
- ➢ Guide visitors, aid nurses, transport patients, and manage the front desk
- ➢ Reach out to other departments in order to request resources and patient data/samples

FEBRUARY 2017 – APRIL 2017

MEMBER, YUBA-SUTTER MEXICO MISSION

- ➢ Participated in a mission trip to Mexico through the Amor Foundation
- ➢ Built 2 houses for the poor
- ➢ Learned the foundations of construction and engineering
- ➢ Traveled and camped in Mexico

JANUARY 2015 – PRESENT

VOLUNTEER INSTRUCTOR, SAINT JOHN'S PROGRAM FOR CHANGE

- ➢ Teach the use of Microsoft Office Tools, free internet services, and online security in order to boost employment opportunities for underprivileged women
- ➢ Responsible for preparing curriculum and promoting learning
- ➢ Taught more than 100 women computer skills since January 2015

ACTIVITIES

SEPTEMBER 2019 – PRESENT
STUDENT RESEARCHER, UC DAVIS
- Work with the Applied Micro/Nano-Electromagnetics Lab
- Analyze data using Python to determine emittance frequency of tumor-specific exosomes
- Extracted MBVD parameters to model and simplify the circuit
- Aid in tuning the nanomechanical biomedical sensor to the ideal frequency of the exosomes
- Long-term objective is a method for less obtrusive detection of cancer

SEPTEMBER 2016 – PRESENT
FOUNDER & PRESIDENT, SCIENCE OLYMPIAD AT VISTA DEL LAGO HIGH SCHOOL
- Led more than 25 peers and officers
- Coordinated 4 major events to bring Vista del Lago High School to the Sacramento Regional Competition for the first time
- Planned and coordinated events with school and staff
- Managed members and officers
- Ran running regular officer & member meetings
- For more information check out https://www.fcusd.org/Page/29090

AUGUST 2016 – PRESENT
CAPTAIN, TECHKNOWLOGIC VEX ROBOTICS TEAM
- Led a team of 5 members to the semi-finals in the United States National Open Create Vex Robotics Tournament
- Responsible for construction and programming of the robot
- Managed administrative tasks including planning tournament schedules, managing inventory, and allocating tasks
- Recognized for highest skills score in regional competitions, and among the highest skills scores in the state

HONORS AND DISTINCTIONS

- Telugu Association of Greater Sacramento's Talented Kids Award 2018
- Taekwondo Black Belt certification
- Outstanding Volunteer Recognition Award
- 1st Place - Orchirds Youth International Chess Tournament
- Best Unrated Player - Kasinadhuni Rajya Laxmi International Fide Chess Tournament
- Folsom Teen Library Council Membership
- National Honors Society Membership
- California Scholarship Federation Membership
- National AP Scholar Award
- Potential Valedictorian
- 4th Place – Sacramento Science Bowl
- Founding Vista del Lago Quiz Bowl Team Member