Mihir A Desai

madesai98@outlook.com | (818) 391-0801

Objective:

Seeking a position in an organization utilizing my strong academic knowledge and project experiences to achieve self and organizational goals.

Software Design | Frontend and Backend Web Development | Machine Learning and Neural Networks
Statistical and Numerical Analysis | Data Science

Education:

University of California San Diego *2016 – 2019*
Bachelor of Science – BS, Cognitive Science, Machine Learning, Neural Computation GPA – 3.4/4

John Burroughs High School – Burbank *2012 - 2016*
Advance Placement (AP) Credits – 72 Units (UCSD Equivalent) GPA – 4.7/4 *(5)*

- European History
- Physics B
- Calculus AB
- Chemistry
- Psychology
- Spanish Language and Culture
- United States History
- Biology
- Calculus BC
- Computer Science A
- English Literature and Composition
- Microeconomics
- Physics C: Electricity and Magnetism
- Physics C: Mechanics
- Statistics
- United States Government and Politics

Technical Skills:

- Databases: MySQL, NoSQL
- Data Analysis Tools: MATLAB, Python Pandas
- Web Development: HTML, CSS, PHP, NodeJS
- Language: Java, Python, C/C++, C#, ARM Assembly
- Productivity tools: Microsoft Office, Adobe Creative Cloud
- Version Control: GIT
- Debugging: GDB, Valgrind

Projects and Accomplishments:

Hackathon Invitational - AT&T Developer Summit, Las Vegas, NV *2017*
AT&T invited developers from across the country to embrace mechatronics, the art of mixing mechanical engineering with electronics and wireless connectivity to pitch their best mobile app for a chance to win $20,000 in the AT&T Hackathon Invitational.

Our team T.H.I.N.K., which was formed after sharing our interests through social media, had an innovative idea to build an app (MendMe) that wirelessly connected to a physical therapy glove designed to help patients with wrist mobility impairments. The glove can detect the range of motion of the patient's wrist during active physical therapy sessions and detect the number of exercise repetitions they performed. In this project, my responsibility was to develop and design the mobile app, as well as program the circuitry on the glove itself to communicate with the app. Our team won the first prize for this contest.

The app doesn't just interact with the glove; it can also be used as an educational tool. Healthcare providers can upload videos and messages which patients can watch to remind them about their prescribed exercises. MendMe also helps motivate patients to do their exercises through an achievement system and by providing positive reinforcement feedback based on the degree amount that his/her range of motion is improving – something that may not be detected by visual estimations.

https://developer.att.com/blog/hackathon-invitational-think
https://developer.att.com/blog/2017-summit-challenge-winners
(please copy and paste the links above in a browser, if it fails to open the webpage by clicking)

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Experience:

Lab Assistant to Dr. Federico Rossano (UCSD), La Jolla, CA   *2018*
Data Cleaner and Machine Learning Developer

- Cleaning 20,000+ previous data entries using Excel and Python
- Building software to keep new data entries consistent
- Developing machine learning algorithms to analyze videos for gesture annotations
- Advising how to ensure future data from all team members stays consistent

Alpha Beta Creatives, New York, NY   *2018*
Graphic Designer

- Designing logos for new web solutions
- A/B testing for marketing landing pages
- Data-driven UX design
- Designing new products for various e-commerce sectors

American Partners Insurance Marketing (APIM), Glendale, CA   *2016*
Web Developer

https://www.apimusa.com/

- Fully built using PHP with a MySQL database
- Custom-built admin panel to edit content quickly
- Interactive and animated
- Responsive front-end design to adapt to any screen size
- SEO optimized
- Retargeting pixel implemented for advertisements

Certifications:

National AP Scholar   *2016*
   Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams.
AP Scholar with Distinction   *2016*
   Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams.
AP Scholar with Distinction   *2015*
Youth Leadership Program (YLP), City of Burbank, CA   *2015*
   A city-run program where a select group of high school students learn about city services and how to be a community leader through seminars and group exercises.
Early Entrance Program (EEP) Honors Academy, Cal State Los Angeles   *2013*
   A summer program where middle school and early high school students can take college classes for the opportunity to enter college directly.
President's Awards for Educational Excellence   *2012*

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