

SIDDHARTH MUNUPATRULA

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📍 Visakhapatnam, Andhra Pradesh, India

WORK EXPERIENCE

BodhiMetrics LLC

March 2020 - Present

Jr. Web Developer

Developed 12 online games designed to measure abilities cognitive abilities using vector graphics frameworks (e.g., Paper.js), Javascript and the jsPsych psychology experimentation library.

Visual Working Memory

- Developed a custom implementation of a color-based visual working memory task to test the fidelity and capacity of users' working memory.
- Demo: <https://siddharthmunupatrula-vwm.netlify.app/>

Towers of Hanoi

- Developed a custom version of the game "Towers of Hanoi", in which users must move discs between three different rods to a target rod according to various constraints.
- Created a generic platform for producing different Tower of Hanoi problems with constraints of differing complexity (e.g., allowing all discs to be moved regardless of size; having different shapes on each rod).
- Demo: <https://siddharthmunupatrula-toh.netlify.app/>

Balloon Analogue Risk Task

- Developed a custom implementation of BART, in which users may choose to inflate a balloon to earn points, but at the risk of the balloon popping and causing all of their points to be lost.
- Demo: <https://siddharthmunupatrula-bart.netlify.app/>

Vividness of Visual Imagery Questionnaire and other experiments

- Created improved versions of existing psychology experiments and surveys in terms of functionality, extensibility, and aesthetics.
- Demo: <https://siddharthmunupatrula-vviq.netlify.app/>

Mymoneykarma Infomatics Ltd(A FinTech Company), Hyderabad, India

April 2019 - March 2020

Jr. Software Engineer

In-house CRM, On Boarding Process, Asset Management

- Developed "On Boarding Process", an application for managing employee data, attaching documents, and supporting HR activities. Built using JavaScript, AngularJS, NodeJS, MySQL
- Developed and launched the "Asset Management" application, used by the administrative team and asset management personnel to track the company's assets. Built using JavaScript, AngularJS, NodeJS, MySQL.
- Worked on Customer Relationship Management application for inbound lead processing. Refactored and improved the assignment of leads to relationship managers, qualification and submission to financial institutions and reconciliation, using JavaScript, AngularJS, NodeJS, MySQL.
- Communicated with the Data Analytics team and helped set up and analyse web-based analytics, filtering quality leads using Google Analytics, Google Tag Manager, PostgreSQL and R.

PERSONAL PROJECTS

- E-commerce implementation for an apparel retailer using ReactJS, NodeJS, Firebase. *April 2021 - June 2021*
- Clone of Amazon while learning React JS, NodeJS, Firebase. *March 2021 - April 2021*
(<https://clonechallenge-ef2d7.web.app/>)
- Spiderman's Room Environment using Unreal Engine, Blender. *December 2021 - January 2022*
- Hand tracking AR filters for Instagram using Spark AR, Blender. *February 2022 - Present*

OUTREACH AND NON-PROFIT WORK

Make a Difference, Vizag, India

May 2017 - July 2019

Shelter Operations City Manager, Lead Facilitator(Dream Camp'19), Academic Support Volunteer

- Mobilised young leaders towards **ensuring equitable outcomes for vulnerable children in shelter homes** in India.
- **Facilitated sessions, trained volunteers, raised funds, organized events**, maintained relationships with shelter authorities and made sure the operations run smoothly.
- **Led operations** across different verticals by being part of teams **nation wide**.
- **Achieved 91% pass percentage** as an outcome.

AP Janmabhoomi, State Government of Andhra Pradesh, India

August 2017 - February 2018

Project Outreach Intern - Digital Classroom Project

- Worked with district level officials to **ensure implementation of the Digital Classroom Project in Government schools** of the State of Andhra Pradesh.
- **Raised funds** to help the initiative achieve more Digital Classrooms in government schools.

SKILLS

Technical: Proficient in JavaScript, HTML, CSS, ReactJS, NodeJS, AngularJS, MySql
Familiar with Unreal Engine, Spark AR, Blender, Solidity, Python

Languages: English, Telugu, Hindi

EDUCATION

Bachelor of Technology (Electronics and Communication Engineering)

August 2015 - May 2019

MVGR College of Engineering, India