

LAYA MADULAPALLY

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EDUCATION

University of Southern California, Viterbi School of Engineering – Los Angeles, CA

August 2019 – May 2023

B.S. in Computer Science, Minor in Digital Entrepreneurship

Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Introduction to C++ Programming, Introduction to Computer Science (theory), Linear Algebra and Differential Equations, Principles of Software Development

Clubs and Organizations: Sigma Eta Pi entrepreneurship society, Women in Computing, Girls in Tech, Drishti (classical Indian dance team)

EXPERIENCE

Stemnova – Remote

Summer 2020 – Present

Tech Lead

- Engineering a computer science curriculum to introduce the fundamentals of object-oriented programming to educationally underserved middle schoolers
- Developing a hackathon based around social impact issues to teach children the importance of technology in all aspects to extend Stemnova's STEM in social impact curriculum
- Working with MIT Beaver Works to expand their program for middle school students

Rythmos – Remote

Summer 2020

Software Engineering Intern

- Restructured the company to integrate Keycloak into their services by developing multiple RESTful APIs using NodeJS with the ExpressJS framework and MongoDB Atlas
- Configured authentication and authorization using Keycloak server in order to create security levels in the backend application and wrote documentation on the different functionalities that Keycloak provides

LEADERSHIP

CNUSD & CTRI Mentor – University of Southern California

Summer 2020 – Present

- Virtually mentoring three educationally underprivileged LA middle school students in math and computer science

Vice President of External Affairs – Sigma Eta Pi entrepreneurship society

Spring 2020 – Present

- Coordinating and executing 1-2 guest speakers and skill development workshops a week for the USC SEP community

Co-founder/CTO – Rally.

Fall 2019 – Present

- Earned 2nd place in the SEP pitch competition and audience choice award in the Troy Labs Demo Day
- Accepted into the LA based startup accelerator, Bixel Exchange where we meet with an advisor bi-monthly to review progress and set 2-3 KPIs

PROJECTS

Project Adamchat

Fall 2020

- Developed a web application that connects people who want to learn a language to a native speaker so they can learn through communication via video chat and messaging
- Engineered a RESTful API using NodeJS, Keycloak, and MongoDB Atlas that communicates with Java servlets for db querying and user matching

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Winter 2020

- Developed a female empowerment mentoring web application in the UCSB WomxnHacks hackathon using NodeJS, ExpressJS, and MongoDB Atlas to build a RESTful API
- Utilized Figma to design the UI/UX and HTML/CSS and JavaScript to build the front-end application

AWARDS

Best use of MongoDB Atlas @ UCSB WomxnHacks 2020

Best MongoDB Atlas integration in the hackathon

2nd Place @ TechStars Startup Weekend 2019

Business development competition hosted by TechStars

Finalist @ HOSA ILC 2018

Ranked top 10 internationally for creative problem solving

SKILLS

Languages: C++, Java, PostgreSQL, MySQL, HTML/CSS, JavaScript

Libraries/Tools: NodeJS, Keycloak, MongoDB Atlas, Adobe Photoshop, Figma, Microsoft Office