

SRIHARSHA GUDUGUNTLA

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Aspiring Computer Scientist bearing 5+ years of experience in full stack open-source web development, systems, and creative design skills. Enjoy applying the latest cutting-edge technologies to forge innovative solutions to a variety of engineering challenges, ultimately seeking to drive large-scale impact.

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

B.A. Computer Science, B.A. Economics, Class of 2022

Expected Graduation: May 2022

Honors: Regents' & Chancellor's Scholarship Candidate

Relevant Coursework: Structure & Interpretation of Computer Programs, Data Structures, Discrete Mathematics and Probability Theory, Designing Information Devices & Systems I & II, Multivariable Calculus, Foundations of Data Science

Berkeley, CA

August 2018 – Present

EXPERIENCE

BERKELEY RISE LAB

Berkeley, CA

Research Assistant at Buildings, Energy, and Transportation (BETS) Research Group January 2019 – Present

- Restructuring gRPC microservices for collecting building metadata to enhance energy efficiency and sustainability of commercial buildings; implementing a CI/CD pipeline with a comprehensive Python testing suite
- Releasing an open-source web platform to substantially reduce the effort for researchers to extract, clean, and visualize 100,000+ point labels from 92 different buildings; built with Flask and React/Redux
- Clustering building metadata using semi-supervised machine learning and natural language processing techniques, expediting the metadata cleaning process
- Coauthored research paper for the ACM BuildSys Conference (2019):

Dataset: An Open Dataset and Collection Tool for BMS Point Labels, Link: <https://bit.ly/2ISxYM4>

EASY LOOP

Cupertino, CA

Product Creator

January 2016 – Present

- Pioneered an open-source Chrome Extension serving 20,000+ high school students daily across the country
- Streamlined the grade calculation process, saving students 5 hours of otherwise lost time every week
- Designed a product site, started a Facebook page with 300+ followers, and earned school press coverage

App Link: <http://tinyurl.com/easyloop>, **Press Link:** <https://bit.ly/2oBab3m>

EDCAST INC

Mountain View, CA

Software Engineering Intern

June 2017 – August 2017

- Boosted real-time team collaboration by integrating a brand-new live video calling feature using React & Redux
- Maximized team productivity by generating detailed bug reports, assigning bugs, and resolving 30+ cases
- Delivered thorough qualitative analysis reports by building cross-browser and REST API automated testing suites using Protractor, Mocha/Chai, Jenkins, ReactUtil, Selenium, and Postman

UC BERKELEY DECAL BOARD

Berkeley, CA

Web Development Lead

January 2019 - Present

- Launching UC Berkeley DeCal Program's premiere portal for students to find, create, and facilitate courses
- Integrating Google OAuth 2.0 protocol for authentication and authorization to personalize students' experience
- Constructing web portal using MongoDB, Node.js, Express, GraphQL, React, Redux, Prisma, Docker, and AWS

SKILLS

Proficient: Java, Python, JavaScript, Node.js, Express, React, Redux, GraphQL, MongoDB, SQL, Numpy/Pandas, HTML5, CSS3, REST API Development, React Native

Familiar: AWS, Docker, gRPC, Flask, Sci-Kit Learn, Blockchain

ACCOMPLISHMENTS

- Top 14 of 500 teams and national finalists for the National Basketball Association Hackathon 2019; presented research proposal (**Link:** <https://bit.ly/2n2FXGw>) and proof of concept (**Link:** <https://bit.ly/2m1990r>)
- Top 15% Internationally at Association of Computational & Mathematical Modeling, Gamma Prize Winner
- Top 5 Teams at MakeHacks & Los Altos Hacks, Dailymotion Best Social Media Hack
- Spearheaded Cupertino's largest hackathon, TinoHacks, twice by raising \$20,000 and acquiring 350 participants