

Gaurav Rao | Resume

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Undergraduate Computer Science/Mathematics Major passionate about applying mathematics in novel ways to create innovative products, especially with understanding freeform data and applications to education.

Previous Employment

- **Laserlike Inc** **Mountain View, CA**
Engineering Intern *June 2018–August 2018*
 - Used Golang to predict user interests and schedule notifications for reengagement and improve daily active user rate
 - Deployed and orchestrated microservices and reverse proxy endpoints using kubernetes/docker
 - Created interactive online debug tools to benchmark image suggestions and real time notification sending using golang.
 - Used hyperbolic geometry for word/concept embeddings to improve machine learning article suggestion model
 - Improved word disambiguation system for processing internet articles
- **Berkeley Institute of Data Science** **Berkeley, CA**
Undergraduate Researcher *2017*

I worked under an ecology researcher using predictive models such as recurrent neural networks and ridge regression to analyze soil greenhouse gas emissions in puerto rical soil.
- **Student Learning Center** **Berkeley, CA**
Math Tutor *2017-2018*

Improved student learning outcomes by tutoring Berkeley students calculus, linear algebra, and discrete mathematics.

Education

Academic Qualifications.....

- **University of California, Berkeley** **Berkeley, CA**
BA Computer Science and Mathematics, 4.0 CS GPA 30 Putnam Score *2017–2020*
Coursework: Probability Theory and Random Processes, Data Structures, Machine Structures, Algorithms, Real Analysis, Abstract Algebra, Algebraic Geometry
- **Hillsborough High School** **Tampa, FL**
IB, AP, 7.2 GPA *2013–2017*

Projects.....

- **Calhacks:** *'Machine learning choose your own adventure generator'*
Used a GAN to generate visuals and a Character RNN to create a random choose your own adventure game
- **Developer Camp Best Education Hack:** *'Splash Game'*
Used Pixi Library to create a Javascript infinite runner game to teach children about the water cycle and the importance of conservation

Technical and Personal skills

- **Programming Languages:** Proficient in: C, Python, TeX, Java, Golang, Javascript, React, SQL
Also basic ability with: RISC V Assembly, CSS.
- **Other:** Good soldering skills, can play piano, guitar, and ukulele. I can deploy a website using Digital Ocean/Other cloud platforms and docker.