

VINAY KONURU

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EDUCATION

Princeton University

2020-2024

Bachelor of Science

Pine View School

2010-2020

Overall GPA: Distinction (4.0/4.0)

SAT 1530

National Merit Semifinalist

Relevant Advanced Coursework: Calculus 3, Differential Equations, AP Chemistry, AP Physics C Mechanics and Electricity Magnetism, AP Computer Science

EXPERIENCE

Fourth Place in National Math Modeling Competition

April 2020

I competed in a national math modeling competition called the Mathworks Math Modeling (M3C) Competition hosted by SIAM and placed fourth out of over 760 other teams from across the nation. The competition tasked us with modeling the growth of the electric trucking industry and dealing with many of the challenges that are associated with this growth. We would typically have been invited to New York City to compete for the final places, but this was cancelled due to the COVID-19 pandemic.

Educational Population Growth Simulator

July 2019

To simulate the massive impact environmental conditions have on a population and to disprove the antiquated ideas about genetic superiority spread by books such as the Bell Curve, I created an online population simulator with Node.js. It allowed users to define population traits and environmental conditions, and showed an intuitive display of how a population may change over several simulated generations.

ePrinceton

May 2020-Current

I pitched the idea for and am working with a team to develop a virtual Princeton campus. This is a novel solution for many new admits to see the school for the first time and for current students to have a more physical experience with the university with visit weekends and classes cancelled during the current pandemic. Our initial launch event reached and sustained 100 concurrent players, was recognized by multiple on campus offices, and was covered by the university newspaper.

Diversity Calculator Android App

July 2018

Developed an Android application that quantified the diversity of a given organization or body relative to its surrounding area. The program was used at a workshop by IntegrateNYC to bring a quantitative aspect to a problem that's qualitative aspects are easily and often overlooked.

TECHNICAL STRENGTHS

Programming

Java, Python, HTML, SQL

Wireframe

Microsoft Powerpoint, Wireframe.cc

Visual Design

Canva, Blender, Adobe Premiere Pro(certified)

Website (coded)

Django and HTML5

VOLUNTEERING ACTIVITIES

School Board

2019-2020

Student Representative

- I represented student body of our school district on the local school board, communicating many of the concerns and beliefs of my peers to county officials.

Diversifying and Integrating Gifted Schools Task Force

2016-2020

Founder

Started a task force to reevaluate many of the admissions aspects to my high school to target the source of many diversity issues we faced. Working with administration, we were able to begin reinventing the admissions process with the help of many experts in the field and start a conversation within the community about this issue.

AWARDS AND RECOGNITIONS

Mathworks Math Modeling Challenge (2020)

Fourth Place out of 760+ teams

Princeton Prize in Race Relations(2019)

One of 26 winners Nationwide