ADVAY KORANNE

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EDUCATION

Catlin Gabel High School   *2016 - Present*

CARRIER OBJECTIVE

To explore the fields of computer science and applied mathematics and learn from skilled experts.

PROJECTS

Non-periodic Pseudo Random Number generator using Sinai Billiards
A novel method of generating pseudo-random numbers using Hamiltonian-Dynamical systems is presented in this paper. Using Sinai Billiards which exhibit chaotic non-periodic trajectories, I was able to create a pseudo random sequence. According to my research, this is the only known method for a non-periodic, pseudo-random number generator.

TECHNICAL STRENGTHS

Software & Tools   Python, Java, Julia, MS Office, Latex

WORK EXPERIENCE

Mathnasium, Oregon   Feb 2019- present
Instructor

· Teach twice a week at Mathnasium helping struggling kids from ages 5-18 with math.

Taekwondo, Oregon   Feb 2016- present
Instructor

· Helped teach self defense, forms, and life skills at my Taekwondo school.

Catlin Gabel, Oregon   Summer of 2018
Counselor

· Helped kids, from ages 4-6, with art, woodworking, and acadamic areas of interest.

ACADEMIC ACHIEVEMENTS

1st place Gresham-Barlow Science Expo in Computer Science.

Intel Excellence in Computer Science Award

99 % SAT Math in Nationally Representative Sample Percentile

Chosen by Teachers to be on numerous boards: Scheduling Board, and New Dean Candidate board

EXTRA-CURRICULAR

Junior co-class president

Taekwondo second degree black belt, referee certified, 3rd in state 2018 and 4th in 2019. Competed at 2018 Taekwondo Nationals.

Tabla player. Played in California, Oregon, Washington, and India.

Co-director of WANT Summer Journalism fellowship

West Linn City Youth Council Member

Member of Catlin Gabel JV Chess team (2nd in state 2019)

Lead organizer of Diversity Summit at Catlin Gabel 2018 and 2019 (over 300 attendees)

co-club leader UJIMA

Science bowl 2016-2017

CLASSES

Computer Science 1: Python

Computer Science II(Data Structures): Java

Honors Calculus

Physics

Chinese

PERSONAL TRAITS

Ability to work through challenged

Ability to work well in groups