



## Davidson Fellow Ashvin Mysore

(\$10,000 Scholarship Recipient)



### Personal Info

Ashvin Mysore

Age: 17

Louisville, Colorado

### School, College and Career Plans

A recent graduate of Fairview High School in Boulder, Colorado, Ashvin is enrolled at the University of California in Berkeley and this fall will begin working toward majors in Philosophy, Mathematics and Computer Science.

### Davidson Fellows Submission (*Technology*)

Terrain generation is a branch of computer graphics that deals with drawing landscapes; it is widely used in applications ranging from computer games and computer generated imagery in movies to scientific visualization and simulations. In his project, *Fractal Terrain generation with the ROAM Terrain System*, Ashvin combined a novel method of generating random yet realistic terrain with a technique for quickly generating large terrains.

Fractals are seemingly very detailed and finely textured geometric designs, which can be very easily and quickly constructed. Consequently, Ashvin's technique produced realistic looking landscapes quickly and without the need for a large amount of memory on a home PC. Ashvin's work has broad applications in scientific visualization terrain rendering, meteorology, geology, space science and military training.

### Biography

Ashvin is a graduate of Fairview High School's International Baccalaureate program. He is also a National Merit Finalist and an AP Scholar. During his junior and senior years of high school, he was an A-student taking senior and graduate-level courses in physics and computer science at the University of Colorado, Boulder.

Ashvin was also employed as an informal teaching assistant in programming and data structure classes at the University.

In high school, Ashvin participated in the Physics Bowl, Robotics competitions, and Philosophy and Debate Clubs. Ashvin enjoys playing the violin and script writing. His athletic interests include skiing, tennis, racquetball and TaiChi/Shaolin.

*Please see next page.*

**The Davidson Institute for Talent Development**

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**Ashvin Mysore**  
*(Cont.)*

Honors/Awards

- 2002 Davidson Fellow (September)
- 2002 Society of Cable and Telecommunication Engineer's Milton Shapp Award
- AP Scholar
- National Merit Finalist
- 99<sup>th</sup> percentile composite score on the ACT
- 99<sup>th</sup> percentile in verbal and 96<sup>th</sup> percentile in Math on the SAT

Community Activities

Ashvin has been a volunteer member of the Youth Advisory Board at the Boulder Public Library for three years. He is also a voter education volunteer for the Sierra Club.

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