

SHRIPHANI PALAKODETY

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EDUCATION

Currently pursuing a Bachelor's degree in Computer Science (Honors) and Bachelor's degree in Mathematics from Purdue University.

Status: Junior (3rd Year), Dean's List and Semester Honors

Current Cumulative GPA: 3.93 / 4.0

Completed Coursework:

Computer Science:

- Introduction to Algorithms (CS 381)
- Operating Systems (CS 354)
- Data Structures (CS 251)
- Computer Architecture (CS 250)
- Programming in C (CS 240)

Mathematics:

- Differential Equations (MA 366)
- Foundations Analysis (MA 341)
- Linear Algebra (MA 351)
- Calculus and Analytical Geometry (MA 261, 162)

SKILLS

- Python, C/C++, Java, Assembly (X86 / Sparc)
- HTML, CSS
- OpenGL, OpenGL|ES

EXPERIENCE

RESEARCH ASSISTANT (VACCINE CENTER, 2010 MAY - 2010 AUGUST):

Extended a 3D emergency response system using OpenGL|ES. Implemented a 3D picking algorithm for interaction with objects in virtual world, a controllable camera implementation and camera modes for tracking personnel in the simulated emergency site. Implemented a novel attribute visualization technique. The poster presented at the SURF 2010 Symposium for this work was judged Top Poster. Work supervised by Dr. David Ebert.

RESEARCH ASSISTANT (COMPUTATIONAL GENE FUNCTION PREDICTION, 2009 AUGUST - PRESENT):

Implemented gene function prediction algorithms in Python. Research supervised by Dr. Daisuke Kihara in the Kihara Bioinformatics Laboratory: <http://kiharalab.org/people.php>

LISTENER (2009, AUGUST - PRESENT):

Implemented a tool using Python to assist those with noise-cancellation headphones, in detecting calls of attention in their surroundings. Implemented Voice-Activity-Detection algorithms. Project details at: <http://shriphani.com/blog/listener/>

PYSOY MATERIALS MODULE (2008, JANUARY):

Created the materials module to provide default textures and colors for the 3D Game Engine PySoy while participating in the Google Highly Open Participation Contest. Task details at <http://code.google.com/p/google-highly-open-participation-psf/issues/detail?id=320>

PYTHON ON UNIX DOCUMENTATION(2007, DECEMBER):

Authored documentation for Python 2.5 on Unix while participating in the Google Highly Participation Contest. Task details at <http://code.google.com/p/google-highly-open-participation-psf/issues/detail?id=165>

AWARDS AND HONORS

- Top Poster Presentation, Summer Undergraduate Research Fellowship (SURF) 2010