

Dear Hiring Manager

I read your posting for the Graduate Student Researcher job and am keen on grabbing this opportunity.

I am enrolled in the Master's program in Applied Mathematics at University of Washington, Seattle. I had come to this department with an aim of learning data analysis and math modeling techniques. I can now say that this had been the best decision of my career.

I am fortunate to be working with Professor J. Nathan Kutz of our department and Joshua T. Schiffer of Fred Hutchinson Cancer Research Center on modeling kinetics of herpes virus inside a patient's body. Applying my analytical and computational skills in the field of biology has been a very learning experience, and working with professionals outside of the math world has been very interesting too.

The projects at Swanson Lab interest me because of the variety of roles and tasks they involve. I believe that my experience from working on modeling HSV kinetics and from software development in past makes me a strong candidate for the position of Graduate Student Researcher. I also expect to gain valuable knowledge from working with motivated researchers and scientists.

My resume below provides additional information on my background and qualifications.

Thank you for your consideration.
Varsha Dhankani

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OBJECTIVE

Graduate Student Researcher at Swanson Lab

EDUCATION

Master of Science, Applied Mathematics, GPA: 3.95/4.0, expected Fall 2011
University of Washington, Seattle, WA, USA

Coursework includes vector calculus, computational methods for data analysis, mathematical ecology, nonlinear dynamics and chaos, scientific computing.

Bachelor of Engineering, Computer Science, GPA: 3.6/4.0
July 2002 – July 2006
Jai Narain Vyas University, Jodhpur, Rajasthan, India

Coursework focused on data structures, object oriented programming, database and file systems, graph theory, operating system design, software engineering concepts, and advanced engineering mathematics.

EXPERIENCE

Software Engineer
Infosys Technologies Ltd., Bangalore, India

October 2006 – March 2008

Software Engineer
Apex Infosoft Pvt. Ltd., Rajasthan, India

April 2008 – October 2009

RESEARCH PROJECTS

- Currently working with Prof. J. Nathan Kutz on modeling kinetics of herpes

virus inside a patient's body

- Signal separation using Independent Component Analysis techniques
- Comparative study of Sorting and Searching Algorithms

SKILLS AND QUALIFICATIONS

- Strong math background and excellent analytical skills
- 2 years' experience in application development using C++
- Proficient in C++, MATLAB
- Experience with image analysis and separation
- Work well independently and in team projects

ACTIVITIES & AWARDS

- Ranked second with Honors division in undergraduate school, 2002-2006
- Scored 95% marks in mathematics in All India Senior School Certificate Examination conducted by Central Board of Secondary Education, India
- Organized paper presentation event at state level technical festival, 2002-2006
- Volunteer for Nature Consortium, Seattle
- Volunteered in math class at Mercer Island High School

REFERENCES

- Dr. J. Nathan Kutz – Professor and Chair, Applied Mathematics
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- Dr. Bernard Deconinck – Associate Professor, Applied Mathematics
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