

Gaurav P. Rele

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350 Arballo Dr. Apt 7B, San Francisco, CA 94132

Skills

Programming:

C++,Python, MATLAB,
MySQL,R, C ,C#.NET,
Java, JavaScript, PHP,
LaTeX, HTML,Ruby on
Rails.

Others:

MS Excel, Word

Links

GitHub: gauravrele87

Linkedin: gauravrele

Website: gauravrele

Additional Courses

Machine Learning

(Coursera)

Tableau (tutorial)

Education

Aug. 2015 M.S. Physics GPA: 3.02 San Francisco State University (SFSU)

Thesis: *Effect of Anthropogenic Ship Noise on Plainfin Midshipman*

May 2010 Bachelors in Engineering (B.E.) Mechanical Engineering. Mumbai University

Experience

Graduate Teaching Assistant

Physics and Astronomy Dept. at *San Francisco State University*

Fall 2011- Spring 2015

- Conducted demo sessions in the lab based on the complex concepts taught in lectures for a group of 25 or more students clearly and concisely.
- Held weekly office hours for homework.

Graduate Student Assistant

Engineering Dept. at *San Francisco State University*

Fall 2012 - Spring 2015

- Assisted Director with special projects involving technical design for creating, visualizing and tracking department metrics to monitor overall department performance, effectiveness of classes and lecturers as well as performing parallel tasks like regular administrative duties.

Research/Projects

BayAcoustic Lab

Researcher

Fall 2013 - Aug 2015

- Working with Dr. Roger Bland to develop a data and statistical analysis algorithm in MATLAB to evaluate the effect of anthropogenic noise on Plainfin Midshipman using Trapez numerical method.

Budget Application

Jan 2015 - May 2015

- Developed a single user budget application in C++ for managing monthly expenses.

Solar System Simulation

Jan 2014 - May 2014

- Developed a solar system simulation model using JPL's horizons web-interface in Python using Euler method

Robotics Lab

Researcher

Fall 2009 - Spring 2010

- Developed a drive system for a robot using omni-directional mechanical wheels which enables the robot to move in any direction without rotating its body.

Publication / Presentation

- [1] G.P. Rele, R. Bland, "Effect of anthropogenic noise from ship traffic on the mating call of *Porichthys notatus* in SF Bay", Poster,, 999th meeting of the American Geophysical Union, San Francisco, Dec. 8-12, 2014.