

Rahul Nemani

Aerospace Engineer

Experience

Aerospace Engineer at Defense Contract Management Agency (DCMA)

January 2014 - Present (2 years 7 months)

Private Tutor at Varsity Tutors

November 2014 - Present (1 year 9 months)

- Tutor students in Algebra, Geometry, Calculus, Physics, Programming, Engineering, and Test Prep

Associate Engineer at QuEST Global

April 2013 - November 2013 (8 months)

- Developed 3D meshes for both fluid and structural modeling in Hypermesh
- Modified 2D meshes for heat transfer modeling
- Conducted a 2D CFD study for the effect of cylinder spacing in impingement sleeves
- Created and presented PowerPoint presentations of analytical results

Graduate Teaching Assistant at Missouri S&T

August 2010 - May 2012 (1 year 10 months)

- Prepared and demonstrated lab experiments for students in a senior-level and junior-level aerospace lab course
- Provided assistance to students relating to technical lab reports
- Graded lab reports and projects related to the course
- Rated 3.3/4.0 in teaching effectiveness from student evaluations compared with a department average of 2.8/4.0
- Scored 3.5/4.0 for instructor's ability to communicate and effectiveness in communicating the content of the course compared with a department average of 2.8/4.0 for both categories

Consultant at NeitzelWloszek LLC

January 2009 - April 2009 (4 months)

- Worked in a team of six members to design ways to reduce drag on 18-wheelers
- Personally conducted three-dimensional fluid dynamics simulations on four trailer models at various speeds
- Assisted in building and testing scaled models of 18-wheeler trailers in 5'x7' wind tunnel
- Made a recommendation for a design that provided a 12% reduction of drag

Work Study Student at Aerospace Engineering Technical Resource Center

September 2008 - April 2009 (8 months)

- Set up and tested various student labs such as a shock tube lab

- Updated faculty lab facilities by installing various lab equipment and updating computer equipment
 - Provided technical support to graduate students in the aerospace engineering department
 - Operated university wind tunnel for student projects
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Skills & Expertise

Matlab

SolidWorks

Aerospace Engineering

C++

Data Analysis

Microsoft Excel

LabVIEW

Mathematica

VBA

Python

R

Maple

IDEAS

FLUENT

CFX

COSMOSWorks

Linux

Modeling

Education

Missouri University of Science and Technology

MS, Aerospace Engineering, 2010 - 2012

University of Michigan

BS, Aerospace Engineering, 2005 - 2009

Activities and Societies: Indian American Student Association

Mehlville High School

High School, 2001 - 2005

Smartly

Certifications

Duolingo French Fluency: Advanced (Estimated)

Duolingo August 2015

Duolingo Italian Fluency: Advanced (Estimated)

Duolingo January 2016

Intermediate R

DataCamp License 576efddc5886c96b4be8e16f3c20d2cdfddd2f44

Intermediate Python for Data Science

DataCamp License e280ac9f2377ca38983e688e30de4c51340981ad

Importing Data Into R

DataCamp License 9d500e67a548abb6415ae3529bb2478d152c9e08

Cleaning Data in R

DataCamp License db46f671a92cace3d3ac49a3cfa299c2de47c4f3

Introduction to Machine Learning

DataCamp License a1bf03fbb03881a81adfd80f5246daeb33a923a7

Intro to Statistics with R: Introduction

DataCamp License 951eb4dd09eb0cb52039f2e9bfb033b88d1d59cb

Data Manipulation in R with dplyr

DataCamp License da2f973eb7ed722f4ddc583a00a33b529be26b22

Data Analysis in R, the data.table Way

DataCamp License f3213b634b540657ef4a93127818510b960881d8

Data Visualization in R with ggvis

DataCamp License 53571fbf83c9cfa2322010cd217d87308521cac0

Intro to Statistics with R: Student's T-test

DataCamp License 80b6d243291d828c727645bdb5701191871f8662

Introduction to Credit Risk Modeling in R

DataCamp License ad80029a7c69eb418be13491309593371dd9b7a7

Introduction to Portfolio Analysis

DataCamp License 69bc785a6eba03a012ba485ed3f840c3ab1db7e6

Writing Functions in R

DataCamp License c307a3ea784d4ade02c6bc550379bbd6e7e70bad

Reporting with R Markdown

DataCamp License b36c117ef474a6ef83b1c4d892de86926694a560

Languages

French

(Limited working proficiency)

Telugu

Italian

(Limited working proficiency)

Organizations

The American Society for Quality

Member

February 2014 to Present

Rahul Nemani

Aerospace Engineer



[Contact Rahul on LinkedIn](#)