

## EDUCATION

B.Tech. – IIT Bombay, India (Metall. Engg. Mat. Sci) 2007  
M.S. - University of Michigan, Ann Arbor (Mat. Sci. Eng.) 2009  
Ph.D. - University of Michigan, Ann Arbor (Mat. Sci. Eng.) 2012

**CPI: 9.16/10.00**

**GPA: 3.89/4.00**

## STRENGTHS

Problem Solving, Logic, Presentations, Independent Research/Work-Direction, Team Leadership.

## CODING CLASSWORK/SKILLS

### **BootCamp: Web Development Full Stack Program (Kal Academy, Bellevue, WA)**

- Web Programming Fundamentals: JavaScript, Angular, React
- Server-side Programming: Node.js and Databases

### **Coursework**

- Datastructures and Algorithm Analysis – University of Michigan, Coursera
- Python: Programming for Everybody - University of Michigan, Coursera
- Introduction to Programming with Matlab – Vanderbilt University, Coursera
- Basics of Fortran – IIT Bombay
- Introduction to C++: NIIT, India
- HTML, CSS, Javascript for Web Developers - John Hopkins University, Coursera

## WORK EXPERIENCE

### **Army Research Lab –AMMPI (2017 –2018)**

#### *Research scientist*

- Coordinated a collaborative project between 6 scientists at ARL and 9 faculty at UNT, in an explorative study assessing potential of new generation materials – high entropy alloys, additive lattice structures.
- Lead an independent research team of 5 and established correlations between strain rate sensitivity, dynamic behavior, shear localization tendencies and microstructure/processing conditions.
- Published 9 first-author journal articles in the span of 1.5 years.

### **NIST, Gaithersburg MD (2015 – 2017)**

#### *Postdoctoral researcher*

- Worked under the prestigious White House funded Materials Genome Initiative for rapid introduction of new materials into industry.
- Generated improved constitutive models to simulate dynamic behavior and created **Gangireddy modification factor** to Johnson-Cook model for gradual phase transformations.

### **Efficient Carbon Mgmt. Solns., Hyderabad, India (2012 – 2014)**

#### *Chief Technology Consultant*

- Handled project execution including feasibility studies, generation of energy projections and financial predictions including cost modeling for large scale solar photovoltaic power projects.
- Created tools for generating loss optimization and layout designing.

## AWARDS AND FELLOWSHIPS

- I.I.T. Bombay academic award for outstanding performance.
- *Pratibha* fellowship for academic excellence from Indian government.
- Rackham pre-doctoral fellowship.
- Nominations for Sarah Parker prize and Lipschutz award.

## PUBLICATIONS AND CONFERENCE PAPERS

18 first author journal articles: <https://scholar.google.com/citations?user=1Z-ICPoAAAAJ>

- Ultra High Temperature Ceramics Conference, Lake Tahoe, CA (*Aug '08*)
- Materials Science and Technology MS&T 2008 Conference, Pittsburgh, PA (*Oct '08*)
- International Conference on Advanced Ceramics & Composites (ICACC), Daytona, FL (*Jan '09*)
- Materials Science and Technology MS&T 2009 Conference, Pittsburgh, PA (*Oct '09*)
- Gordon Research Conference, New London, NH (*Aug '10*)
- Materials Science and Technology MS&T 2010 Conference, Houston, TX (*Oct '10*)
- SEM Annual Conference & Exposition on Experimental and Applied Mechanics, CT: (*June '11*)
- Materials Science and Technology MS&T 2011 Conference, Columbus, OH (*Oct '11*)
- SEMXIII International Congress on Experimental and Applied Mechanics, Orlando FL: (*June '16*)
- The Minerals, Metals and Materials Society TMS 2017, San Diego CA (*Feb '17*).
- SEMXIII International Congress on Experimental and Applied Mechanics, Orlando FL: (*June '16*)
- SEM Annual Conference & Exposition on Experimental and Applied Mechanics, IN: (*June '17*)
- The Minerals, Metals and Materials Society TMS 2018, Phoenix, AZ (*Mar '18*).

## EXTRACURRICULAR INTERESTS

- Member of editorial board of Journal of Thermal science and engineering.
- Active member at Aarthi Home for orphaned children and women rehabilitation program, India.
- Elected director of executive board in University of Michigan Engineering Council (UMEC).
- Assistant-editor and founding member of newsletter, *Dhatuki*, I.I.T. Bombay.
- Hobbies: Stock trading, oil painting, traveling.