

SREESHA NATH

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EDUCATION

- University of Colorado Boulder, Boulder, Colorado, M.S. in Computer Science** **Aug, 2017 – May, 2019**
- MPSTME, NMIMS, Mumbai, India, B. Tech. in Computer Engineering** **Aug, 2010 – June, 2014**

TEACHING EXPERIENCE

CU Boulder, Co-Associate Chair for Undergraduate Education **July, 2022 – Present**

CU Boulder, Assistant Teaching Professor **Aug, 2019 – Present**

- Courses taught/teaching :
 - CSCI 3308: Software Development Methods and Tools
 - Taught in Fall 2019, Spring 2020, Summer 2020, Fall 2020, Spring 2021, Fall 2021, Fall 2022
 - Covers tools and techniques for successful software development with a strong focus on best practices used in industry.
 - Students work on small teams and complete a semester-long application development project. Students learn front-end design and construction using HTML & CSS, back-end database design and construction, and full-stack integration.
 - Students gain exposure to agile methodologies, web services, distributed version control, requirements definition, automated integration testing, docker and cloud-based application deployment.
 - CSCI 3010: Programming Project workshop: Object-Oriented Workshop
 - Taught in Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Spring 2023
 - Explores concepts and techniques for design and construction of larger, reliable, and maintainable software systems.
 - Covers various topics including specifications, program structure and design, program-correctness approaches, and working with established code bases.
 - Emphasizes coding individually and in pairs and includes multiple weeks-long projects.
 - CSPB 3308: Software Development Methods and Tools
 - Taught in Fall 2021
 - Similar to CSCI 3308
 - It is a completely asynchronous class with students who are currently full-time employed

CU Boulder, Graduate Part Time Instructor - Senior Projects **Aug, 2018 – May, 2019**

- Ran a capstone course for 100 senior students with the help of a co-instructor and 3 TAs
- 18 projects developed and delivered with sponsorship from the industry and university affiliates
- Prepared them to work in a real world work environment and setting their expectations from the industry

CU Boulder, Graduate Part Time Instructor - Design & Analysis Of Data Systems **Jun, 2018 – Aug, 2018**

- Taught a class over summer for 16 students
- Restructured the course curriculum to better suit the needs of the students
- Designed assignments and projects

CU Boulder, Teaching Assistant – Data Structures **Jan, 2018 – May, 2018**

- Conducted recitation sessions that included teaching and exercises for a class of 45 sophomore and junior students
- Graded assignments by conducting interviews
- Interacted with students during office hours to help understand concepts better

INDUSTRY EXPERIENCE

S&P Global Market Intelligence, S&P Global Subsidiary, Hyderabad, India, Software Engineer **June, 2014 – July, 2017**

- Initiated the development of a shelved project and completed it in a span of 1 year
 - Reduced the turnaround time for the cost effective delivery of products to external clients by 30%
- Developed application add-ons to monitor timeliness and quality of product
- Client interaction to understand requirements and resolve conflicts to provide value added solutions
- Refactored and tuned legacy code to reduce processing time
- Performed multi-level testing to produce quality output
- Coached team members about the products and guided them to overcome roadblocks in project development
- Worked in an Agile model for development and pursued several roles in the scrum team

- Developed services to facilitate data delivery to Thomson Reuters after which the company tied up with S&P Global for this product

NWDCo - Complete Web & IT Solutions (Start-up), Mumbai, India, Software Engineering Intern

May, 2013 - July, 2013

- Engineered mobile web applications using jQuery for 3 clients in a span of one month
- Enhanced performance of existing websites by reducing the loading time for the user interface
- Implemented offline saving of data using SQLite for websites to eliminate loss of data in case of disconnection from a wireless network which is now being used in all web and mobile web applications developed by the organisation
- Documented all developments for easier handoff and handy future reference

TECHNICAL SKILLS

- **Programming Languages:** Java, C#.Net, WPF, WCF, SQL, HTML5, CSS3, JavaScript, PHP, Python, C, C++, NodeJS
- **Databases:** MySQL, PostgreSQL, MSSQL, Oracle SQL
- **Development Methodologies:** Agile, SCRUM, Waterfall, Kanban
- **Visualization Tools:** Tableau, SketchEngine, D3.js

SERVICE TO THE DEPARTMENT/COLLEGE

- Training and hiring TAs for the department
- Reviewing eligibility of MS applicants
- Member of Executive Committee
- Member of Ad-hoc Budget Committee for CEAS

HONORS & LEADERSHIP SKILLS

- Successfully lead events as part of Employee Engagement Committee, for 400+ employees at S&P Global
- Honoured with ACE Awards for '**DRIVES PERFORMANCE**' and '**CHAMPION DIVERSITY AND INCLUSION**' at S&P Global
- Lead TA for the Computer Science Department ('18-'19) at CU Boulder for over 70 TAs
- Received '**OUTSTANDING GRADUATE PART TIME INSTRUCTOR AWARD**' in Spring 2019 for AY 2018-19