VASUDHA VARADARAJAN

🎓 **Graduate Student at Stony Brook University**
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○ https://github.com/earthling2304

EXPERIENCE

Research Assistant
Stony Brook University

📅 Dec 2020 – current   📍 Stony Brook, NY

Working on identifying cognitive styles at scale from discourse analysis on social media text.

Teaching Assistant
Stony Brook University

📅 Jan 2020 – Jan 2021   📍 Stony Brook, NY

Teaching assistant for the following courses:
- CSE306: Operating Systems (Spring 2020)
- CSE215: Foundations of Computer Science (Summer-2 2020)
- CSE312: Legal and Ethical Issues in Information Systems (Fall 2020)

Research intern
Inria Sophia Antipolis

📅 Jan 2018 – July 2018   📍 Sophia Antipolis, France

- **Surface Reconstruction using Binary Solvers** Worked on a surface reconstruction algorithm using binary solvers.

Software Development Intern
Google Summer of Code

📅 May 2017 – Aug 2017, May 2018 – Aug 2018

- Research and development of one of the latest algorithms for meshing in C++ library for advanced geometric data structures CGAL.
- Working with the team on the design, development and API for the new package.
- Experience with performance analysis, optimizations and benchmark evaluations.
- Added features to an existing package Poisson Reconstruction in CGAL .
- Incorporated design and performance improvements using Boost C++ libraries.

Technology Analyst
Software Development and DevOps (Deutsche Bank Operations International)

📅 July 2018 – Sep 2019   📍 Bangalore, India

- Created a real-time NodeJS application and used Angular/HTML/CSS for the front-end, and tested with Selenium/Cucumber.
- Migrating legacy applications to Java Spring Boot.

EDUCATION / COURSES

PhD in Computer Science
Stony Brook University: GPA 3.9/4.0

📅 January 2020 – current

Bachelor of Engineering in Computer Science + Int. MSc Physics (Hons.)
BITS Pilani: GPA 8.58/10

📅 Aug 2013 – Aug 2018

HONORS & AWARDS

- **INSPIRE scholarship** awarded by Dept. of Science and Technology, India to support higher education in 2013
- **BITS IPCD Travel grant** University sponsored travel to Inria, France in 2018 for undergrad thesis.
- **BITSAA Travel grant** University sponsored travel to attend the conference SPP8 in Taipei, Taiwan 2017.
- **National Talent Search Examination** Recipient of National Talent Search scholarship in India

PROJECTS

Sensewear

Worked on making remote sensors available seamlessly on mobile/wearable devices for applications such as gesture recognition with Android and Tensorflow Lite.

Interactive application for point cloud optimization

Created an interactive application where a user gives a custom point cloud, can play around with various parameters to produce a reconstruction using Qt5, OpenGL, CGAL library- used to prototype novel algorithms for reconstruction.

SKILLS

Python
Tensorflow, Pytorch, OpenCV
C/C++
Java
Oracle, MongoDB
NodeJS, Angular