

# Shammo Chanda

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## Summary

- Worked on multiple personal and group projects
- Created multiple personal web apps using React and Next.js frameworks
- Analyzed research papers to obtain ideas on how to tackle algorithmic problems using C++ and Python
- Conducted simulations on autonomous vehicle path planning algorithms using ROS2 and RViz
- Worked closely with team members and supervisors to reach common objectives
- Created a simple server implementation in C++ along with team members
- Conducted code reviews for team members

## Education

### UNIVERSITY OF CALIFORNIA, LOS ANGELES, CA

JUN 2022

Major: Bachelor of Science, Computer Science

- Related coursework: Database Systems, Software Engineering, Introduction to Computer Graphics, Introduction to Data Mining, Introduction to Cryptography, Operating Systems Principles
- GPA: 3.586

### RAFFLES INSTITUTION, SINGAPORE

DEC 2015

Coursework: Physics, Chemistry, Math, Economics, Bengali, General Paper, Project Work

- Received A grade in all subjects for Singapore-Cambridge GCE A-Level Examinations

### CERTIFICATIONS

MITx: 6.00.2x: Introduction to Computational Thinking and Data Science

MAY 2017

## Technical Skills

- Proficient in React, Redux, Next.js, React Router, HTML, CSS, JavaScript, C++, C, Python
- Basic Knowledge of Linux, Git, Bash, Java, Julia, Jest, MongoDB

## Work Experience

### RESEARCH INTERN | A\*STAR INSTITUTE OF HIGH PERFORMANCE COMPUTING

JUN 2019 – SEP 2019

- Worked on project to extrapolate data to fill gaps in ship coordinates
- Analyzed research papers to gain understanding of task based on related research
- Used Python to generate data visualization of ship coordinates to supplement understanding of the data

### INTERN | MOOVITA

JUN 2021 – SEP 2021

- Worked on Path Optimization and Reactive Path Planning (RPP) for Autonomous Vehicles (AVs)
- Modification of path optimization algorithm was implemented in AVs
- Analyzed research papers to obtain ideas on how to tackle RPP algorithm
- Modeled virtual environment in ROS2 and RViz which was used to test performance of RPP algorithm on multiple scenarios
- Communicated closely with team members to obtain an initial understanding of the problems to be tackled
- Collaborated with team members to work asynchronously on projects in BitBucket workspace
- Closely documented any progress, as well as the scientific and mathematical foundation behind the construction of algorithms

## Community/ Leadership Experience

### SENIOR TUTORING AND MENTORING PROGRAM | RAFFLES INSTITUTION

JUN 2014 – JUN 2015

- Tutored younger students in the school who were struggling with their schoolwork
  - Worked closely with teachers to suggest approaches to further aid such students
- Helped create a guideline for struggling student-athletes to succeed