Tatparya Shankar

tatparya.shankar@gmail.com   +1-(929)-343-6065   https://github.com/tatparya

EDUCATION

PURDUE UNIVERSITY | West Lafayette   Graduated: May 2017
Bachelor of Science in Computer Engineering   Cumulative GPA: **3.59/4.00**

WORK EXPERIENCE

GOOGLE SEARCH ADS | Software Development Engineer   *New York, Jan 2020 - present*
- Implemented infrastructure to support ads bidding optimization strategies handling over 10 million queries per day

BLOOMBERG LP | Software Development Engineer   *New York, Sept 2017 - Jan 2020*
- Leading data science initiative to establish a data pipeline including acquiring, efficiently storing and performing predictive analytics on over 1.4 million data points daily
- Implemented a distributed failover and load balancing architecture using Apache Zookeeper to support high volume and high frequency trading engines, speeding up order management by over 200%

TRIPADVISOR | Software Engineering Intern   *Massachusetts, May 2016 - Aug 2016*
- Built Django application providing partner widget configurations on a dashboard for developers and analysts
- Implemented data visualizations to Tripadvisor's review platform impacting 2 million customers each month

IBM RESEARCH LAB | Research Intern   *New Delhi, Jun 2015 - Aug 2015*
- Worked alongside senior IBM researcher implementing clustering algorithms to identify and group journalistic sources of data points across different media types

PROJECTS

RUBE CUBE | Computer Vision, Algorithms, Hardware Integration, 3-D Design, C
- Lead a team of four engineers to build an autonomous Rubik's cube solving robot
- Successfully solved the Rubik's cube from randomly scrambled position in under 3.5 seconds

SIGN LEAP | Machine Learning, Computer Vision, Leap Motion
- Converted sign language to speech and text using the leap motion sensor and machine learning techniques
- Demonstrated a success rate of over 90% for 20 letters in real time

RoadTripPin | Tripadvisor API, Google Cloud Services, Node.js, Angular.js
- Developed an interactive and dynamic road trip planner for the Tripadvisor Intern Hackathon; presented project as a potential official Tripadvisor product

PROGRAMMING EXPERIENCE

LANGUAGES   C++, Python, JavaScript, Java, HTML, CSS, XML, Bash, MATLAB
TECHNOLOGIES   Pandas, Sci-kit, Hadoop, NodeJS, ReactJS, Redux, MongoDB, Git, Linux

HONORS AND AWARDS

- Eta Kappa Nu (HKN), Events Director, invite-only Purdue ECE Honors Society   *2016-present*
- George E. Hollister, EE '21 Award and the Eli Shay Scholarship, ECE Purdue University   *2016*
- Dean's List and Semester Honors, Purdue University   *2013-2018*