Tatparya Shankar

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EDUCATION

PURDUE UNIVERSITY | West Lafayette   Expected Graduation: May 2017
     Bachelor of Science in Computer Engineering   Cumulative GPA: **3.64/4.00**

WORK EXPERIENCE

TRIPADVISOR | Software Engineering Intern   *Massachusetts, May 2016 - Aug 2016*
- Worked on Partner API production code for Tripadvisor's B2B Partnerships team
- 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
- Deployed a custom Apache server implementing HTTP queries and JSON API to index natural language data, used to expedite indexing and searching for over 2000 data points

ITAP INFORMATICS | Web Developer Intern   *Purdue University, Jan 2015 - Aug 2015*
- Created polling features in the web and Android versions of "*Hotseat*", Purdue's classroom discussion application used by over 1000 students each semester

EPICS PURDUE | Project Manager   *Purdue University, Jan 2014 - May 2015*
- Led 5 software engineers to develop a Django application connecting over 100 student organizations at Purdue to the West Lafayette community

PROJECTS

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

XPENSE | Node.js, Azure, D3.js, Capital One API
- Created financial literacy web application using D3 visualizations to track current portfolio status and future investment opportunities; winner, Capital One API award, HackIllinois Spring '16

SOBEL EDGE DETECTION | Computer Vision, FPGA, System Verilog, C
- Boosted image edge detection speed by 10 times as compared to a python script, by implementing Sobel edge detection on an FPGA; relevant in the fields of computer vision and image recognition

HIDING IN PLAIN SIGHT | Steganography, Python, QT GUI, Bit Manipulation
- Embedded encrypted texts and images successfully into an image medium with a practically invisible 0.3% modification to the medium

PROGRAMMING EXPERIENCE

LANGUAGES   C, C++, Python, Java, JavaScript, SQL, HTML, CSS, XML, Bash, MATLAB
TECHNOLOGIES   Django, Node.js, React.js, MongoDB, PostgreSQL, Android, Git, Linux

HONORS AND AWARDS

- Eta Kappa Nu (HKN), Events Director, invite-only Purdue ECE Honors Society   *2016*
- George E. Hollister, EE '21 Award and the Eli Shay Scholarship, ECE Purdue University   *2015*
- Dean's List and Semester Honors, Purdue University   *2014*
- International chess player with FIDE rating of 1609 for excellence in rated chess competitions   *2015*