RITWIK BHARDWAJ

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EDUCATION

PURDUE UNIVERSITY   **GPA- 4.0/4.0**

WEST LAFAYTTE, IN

B.S. Computer Science   Graduating Dec 2019

Relevant Coursework – CS251: DS and Algorithms, CS250: Computer Architecture, CS240: Programming in C, CS182: Discrete Mathematics, CS180: Intro to OOP

WORK EXPERIENCE

- **Software Engineer, Intern** at **Genesys | Interactive Intelligence**   Indianapolis, IN (May-August 2017)
  - Re-designed the user interface for PureConnect's integration with Salesforce.
  - PureConnect Integration with Salesforce Omni-Channel - Took ownership for the client-side controller necessary to support status synchronization between PureConnect and Salesforce's Omni-Channel.
  - Unit Testing – In addition to unit tests written for features I developed, I headed up an effort to refactor existing angular components that were not easily unit testable at the DOM level.
  - Automation Testing – Fixed, Stabilized, and Created Java-based automation tests using the selenium grid. Improved the Test passing rate from **42% to 97%**.
- **Undergraduate Teaching Assistant -**   West Lafayette, IN (August 2017-Present)
  - CS390-CPO (Competitive Programming) – Teaching students to solve problems involving **advanced algorithms/data structures.**
  - CS240 (Programming in C)

ACADEMIC ACHIEVEMENTS AND AWARDS

- 'HackIllinois' Hackathon – Won the 'Small World' prize for the **Best Travel Hack** at HackIllinois 2017.
- 'Hello World' Hackathon – Won the prize for **Best Web Application.** Created an app to detect the face of a celebrity and display information about them by scraping their Wikipedia page.
- 'Arch Hacks' Hackathon (Theme – Health) – Won the prize for the **"#HackHarassment"** for the best hack against online harassment. Created a chat app to make counselling sessions online.
- **Ranked 8th in ACM-ICPC** (International Collegiate Programming Championship) Cincinnati regional site. Was one of the 12 students selected from about 90 students to represent Purdue University at the Championships.
- 'Lord of Code' competitive programming competition - Ranked **10th out of 500** participants. Organized by Amrita University on codechef.com.
- **3rd Prize** in Senior Programming' **-** (**100+** schools participated) at SilicoBattles.
- Won the Co-Scholastic Award for excelling in 'Computer Skills' in the year 2014.

TRAININGS AND SKILL SETS

- Algorithms and Data Structures – Experience in advanced algorithms and data structures like **graphs, trees, segment trees, DP, Divide and Conquer,** etc.
- C and C++ (4 years), JAVA (2 years).
- JAVASCRIPT, NODE.JS, JQUERY, ANGULAR JS – 1 year of experience.
- Proficient in HTML, CSS, and SQL.

PROJECTS

- **ItineratR –** Developed a web-app to find the perfect vacation destination for people and generate a complete Itinerary for their trip**.** I made the back-end using **Node.js**. Used multiple API's to get hotel and flight data, points of interest, restaurants, etc.
- **VGrep -** Created an app to generate automated class notes from a lecture video (**Android** app). Used Speech to text API to get the transcript of a video and then generated notes from the transcipt using Machine learning algorithms.
- **Sinless –** An app (**Web and android**) to make people Sin-less by deducting money from their account if they were unable to complete certain tasks. I called the capital one API on the web server (Node.js) for doing transactions and wrote the code for android app for the tasks (tracking steps taken, see if user is using the phone when the focus timer is on, check if user is swearing in text messages). Won the prize for **Top 10** hacks from over **100+** submissions.
- **Native C++ Tic-Tac-Toe -** Developed a game of tic-tac-toe. Both single player and double player. The hardest difficulty of single player was made using **mini-max algorithm** making the computer bot unbeatable.

CLUBS AND ACTIVITIES

- 'President, Academic Cell' of DPS Greater Noida in the year 2015-16.
  - Organized study groups for academically weak students after school hours.
- 'Head of VFX and Programming' of the computer club, Nexus, of Delhi Public School, Greater Noida.
  - Organized programming workshops for students.
  - Organized the annual computer fest, "NEXUS".
- Mentored 'special children' under various categories such as ADHD, Cerebral Palsy, Down Syndrome, Autism, Learning Deficiency etc. under the guidance of Sharmila Shekhar.
- Taught underpriveledged children at home (250 hours).