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ISHWAR AGARWAL

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EDUCATION

Bachelor of Arts in Computer Science and Mathematics — Expected Graduation: May 2018
Berea College, Berea, KY

- GPA 3.85
- Course Highlights: Software Design & Implementation, Data Structures, Computational Complexity, Linear Algebra, Software Engineering, Computational Intelligence, Numerical Analysis, Embedded Systems, Computer Security

SKILLS AND ABILITIES

- **Programming Languages:** Python, C/C++, Ruby, JavaScript
- **Web Skills:** HTML, CSS, Flask, Angular 2, PHP, jQuery
- **Others:** SQL, Linux, Git, MATLAB, RESTful API
- **Foreign Languages:** Bengali, Hindi

WORK EXPERIENCE

Co-Lead Teaching Assistant - *Data Structures* — May 2016 – Present
Berea College Computer Science, Instructor: Dr. Jan Pearce

- Manage a team of 18 Teaching Assistants and organize weekly departmental meetings
- Assist faculty in managing data structures course and tutor students in the weekly lab for a class of 53 students

Student Programmer — August 2015 – Present
Berea College Computer Science | Berea College, Berea, KY

- Design and develop 3 web applications used by 1600+ students and 300+ faculty and staff at Berea College working within a team of 8 students to make administrative workflow more efficient and reduce costs by $20,000
- Maintain systems and resolved 3+ issues per week on 3 live web applications

Software Developer Intern — May 2016 – July 2016
Interapt | Louisville, KY

- Built the client-side of a single-page web application to handle employee information more securely using Angular 2 framework by creating user access control, and reducing human errors.
- Facilitated a team of 5 designers and developers for making software design decisions using agile methodology

Co-founder and Chief Executive Officer — February 2013 - May 2015
Bookshopbd.com | Dhaka, Bangladesh

- Co-founded and co-developed an online bookstore startup using OpenCart CMS platform in Bangladesh
- Remotely managed and maintained website and business operations of the store to increase sales by 30% in last six months

TECHNICAL EXPERIENCE

Projects

- **My Health Matters (2016).** An android pay type app for health insurance that notifies users to get HbA1C screening, flu-shots etc. that won $1000 at *MIT Health Hackathon*, Somerset among 100+ participants. *[Python(Flask), Jinja]*
- **Universify (2016).** A StackOverflow-esque Q&A forum for university students to get help in their coursework that won 2nd place at *Derbyhacks Hackathon* with a team of 4 hackers. *[REST API in Python(Flask), Client-side in Angular 2]*
- **Campus Tour Guide (2015).** A campus tour generator application that generates the shortest Hamiltonian path given a set of buildings user wants to visit using Branch and Bound Algorithm. *[Python, Graph Theory]*
- **AI Tic-Tac-Toe (2015).** A Tic Tac Toe game where an Artificially Intelligent computer player is unbeatable against human player. The AI is implemented using Min-Max algorithm. *[Python, Numpy, Decision Tree]*
- **Genetic Algorithm Project (2016).** Implemented a fully working Genetic Algorithm and designed a healthy meal generator application using the Genetic Algorithm. *[C++]*

Open Source Contributions

- **OctoPrint(2015).** Resolved two issues for OctoPrint, an open source web-based host for 3D RepRap printers [Python]

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COMMUNITY ENGAGEMENT

University Innovation Fellowship | Epicenter, NSF, Stanford University and VentureWell February 2016 – Present

- One of 607 fellows nationwide helping college students develop an entrepreneurial mindset and creative confidence by organizing workshops to teach Design Thinking, Prototyping etc.

Entrepreneurship for the Public Good | Berea College May 2015 – June 2015

- Collaborated with local activist, civic leaders and the Tourism Commission to achieve the city of Berea Trail Town Certification by assessing the feasibility of advancing adventure tourism
- Conducted workshop of 20+ students teaching them the Business Model Canvas and the Lean Startup Process

AWARDS AND HONORS

Awards

- **Ballard-McConnell-Willis Mathematics Scholarship.** Awarded $10,000 worth scholarship for excellence in Mathematics, out of 300 students in the junior class.
- **EducationUSA Opportunity Fund (2014).** One of the 5 students in Bangladesh awarded $2,300 scholarship to study in the United States.
- **Champion at National Physics Olympiad**. One of the 8 champions at National Physics Olympiad Bangladesh, 2014 for solving challenging problems in physics.

Honors

- Pi Mu Epsilon (2015)
- Epsilon Pi Tau (2015)
- Dean’s List Recipient (Fall 2014 - Spring 2016)