Debosmit Ray

http://dray92.github.io
dray92@uw.edu | 206.495.2689

EDUCATION

UNIVERSITY OF WASHINGTON
B.S. in Computer Engineering
Graduated Jun 2015 | Seattle, WA
Conc. in Embedded Systems
College of Engineering
Annual Dean's List ('13-'14,'14-15)
Cum. GPA: 3.72 / 4.0
Major GPA: 3.78 / 4.0

ST. XAVIER'S COLLEGIATE SCHOOL
Grad. May 2011 | Kolkata, India

LINKS

Github:// **dray92**
LinkedIn:// **Debosmit-Ray**
YouTube:// **Debosmit Ray**
Facebook:// **ray.debosmit92**
Stack Overflow:// **debosmit-ray**

COURSEWORK

UNDERGRADUATE
| Data Structures and Algorithms
| Hardware/Software Interface
| Software Design
| Data Abstraction
| Programming Languages
| Computational Science
 and Scientific Computing
| Machine Learning
| Computer Systems
| Digital Circuits and Systems
| Computer Design and Organization
| Image Processing (Teaching Asst)
| Unix Tools and Scripting

SKILLS

PROGRAMMING
Over 5000 lines:
Java • Python • C • Matlab
Python • Android • Verilog
Over 1000 lines:
PHP • JavaScript • Assembly
Assembly • Arduino • LaTeX
Familiar:
iOS • MySQL • Google Cloud
Microsoft Azure • 3D Printing

EXPERIENCE

UBER | Security R&D
May 2016 – Present | Seattle, WA
- 'to be updated...'

GENIE | Co-Founder
Dec 2014 – Apr 2016 | Seattle, WA
- Neural network-based algorithm to generate sentences from images. [demo]
- Responsible for research and development, maintenance, cloud integration of the algorithm and Android app; recent changes to the algorithm increase performance by 150x.

SENSEI | Software Engineer & Team Leader
Dec 2014 – Mar 2015 | Seattle, WA
- Wrist-mounted wearable device to model, analyze and improve performance in swing-based sports. [demo]
- Developed the on-device software to collect data and seamlessly transmit to Android app via Bluetooth; also developed an interactive, user-friendly Android app to visualize the generated swing data for an activity.

RESEARCH

DEPT. OF BIO-ENGINEERING, UNIVERSITY OF WASHINGTON | Research Intern
Jun 2014 – Jan 2015 | Seattle, WA
- Prototyped and developed an algorithm for classifying position of beads in 3D plane, to observe platelet adhesion for cardio-vascular research at the **Wendy Thomas Lab** [research paper submitted with Debosmit Ray as collaborator].

DEPT. OF ECONOMICS, UNIVERSITY OF WASHINGTON | Research Intern
Oct 2014 – Jan 2015 | Seattle, WA
- Implemented a PHP-based system to deliver games to study an individual's motivation to work hard in a risk-protected environment; system was successfully used to test 350 people simultaneously [research paper to be published with Debosmit Ray as collaborator].

AWARDS

2016	top 2%	Highest Stack Overflow reputation in March
2015	Finalist	Business Plan Competition, University of Washington
2012	1st/170	CS 142 Quarterly Intra-Class Critter Bot Tournament
2010	National	Indian National Mathematics Olympiad (INMO) Finalist

SOCIETIES

| 2014-15 | top 10%-ile | Chair, Eta Kappu Nu - IEEE Engineering Honor Society |
| 2015 | top 5%-ile | Speaker, Senior Class Gift Council |