

Debosmit Ray

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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: 3.82 / 4.0

Major GPA: 3.88 / 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 • L^AT_EX

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 Kappa Nu - IEEE Engineering Honor Society
2015	top 5%-ile	Speaker, Senior Class Gift Council