

# Debosmit Ray

<http://dray92.github.io>  
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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: 3.72 / 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:// [dray92](#)

## 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 •  $\text{\LaTeX}$

Familiar:

iOS • MySQL • Google Cloud

Microsoft Azure • 3D Printing

## EXPERIENCE

### GENIE | FOUNDER

Dec 2014 – Present | Seattle, WA

- Worked on neural network-based algorithm to generate sentences from images. [\[demo\]](#)
- Responsible for R&D, cloud integration and Android app.

### CS 131 SCIENCE AND ART OF DIGITAL PHOTOGRAPHY |

#### TEACHING ASSISTANT

Mar 2015 – Jun 2015 | Seattle, WA

- Lectured on fundamentals of digital photography, computational imaging; the elements of photographic composition and design; and internet-enabled photography.
- Was responsible for administrative activities for 2 sections.

### SENSEI | SOFTWARE ENGINEER & TEAM LEADER

Dec 2014 – Mar 2015 | Seattle, WA

- Wearable device to model, analyze and improve performance in swing-based sports. [\[demo\]](#)
- Worked on the on-device software to collect data and transmit to Android app via Bluetooth.
- Developed 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

- Responsible for classifying position of beads in 3D plane based on data and z-stack images, at the **Wendy Thomas Lab**.
- Developed Matlab prototype that was later, ported to Python [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 [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