

# Raj Prateek Kosaraju

120 North Ave NW, Atlanta, GA 30332 · 858-610-7216 · [www.prism.gatech.edu/~rkosaraju3](http://www.prism.gatech.edu/~rkosaraju3)

## EDUCATION

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**Georgia Institute of Technology**, Atlanta, GA August 2012 – December 2015

- Candidate for Bachelor of Science in Computer Science
- GPA: 3.97/4.0; Major GPA: 4.0/4.0 (Faculty Honors)
- Threads: Artificial Intelligence and Information Internetworks
- Relevant Coursework: Machine Learning (CS 4641), Knowledge Based AI (CS 4735), Automata & Complexity (CS 4510), Intro to AI (CS 3600), Statistics & Applications (MATH 3770).

## HONORS & AWARDS

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- **Quickest Solver x2**, Cardlytics Iron Coder 2015, USA September 2015
- **1st Place**, ConocoPhillips Innovation Challenge 2015, OK, USA April 2015
- **1st Place**, Georgia Tech Mobile App Dev Hackathon, Atlanta, USA April 2015
- **1st Place**, GT IEEE Programming Competition, Atlanta, USA March 2015
- **3rd Place**, BizTech Case Challenge 2015, Georgia Tech, Atlanta, USA February 2015
- **Top 10 & Best Project Implementing a Microsoft API**, HackGT, USA September 2014
- **3rd Place**, Amazon Global Intern Hackathon, Amazon July 2014
- **Faculty Honors x5**, Georgia Tech, Atlanta, USA August 2012 – Present
- **Exemplary Academic Achievement Award**, Delhi Private School, UAE June 2012
- **Scholar Badge**, Delhi Private School, UAE April 2004 - March 2012

## EXPERIENCE

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**Georgia Tech**, Atlanta, USA August 2015 – Present

*Undergraduate Research Assistant, Contextual Computing Group*

- Researching under Dr. Thad Starner on eating activity recognition through supervised machine learning on proximity sensor and gyroscope data from off-the-shelf wearables.

**Georgia Tech**, Atlanta, USA

August 2015 – Present

*Undergraduate Research Assistant, Design and Intelligence Lab*

- Researching under Dr. Ashok Goel on efficient case retrieval and mapping approaches for visual analogy problems, with the intention of utilizing this case based reasoning approach to allow robots to perform previously taught tasks in a new environment.

**Georgia Tech**, Atlanta, USA

August 2015 – Present

*CS 3510(Algorithms- Design & Analysis) TA, College of Computing*

- Hold office hours, help students with questions on algorithm design and analysis and grade homework and exams.

**Microsoft**, Seattle, USA

May 2015 – August 2015

*Software Engineer Intern, Microsoft Office*

- Worked on replacing legacy MSN video player from internal Microsoft sites with Azure Media Player. Determined the most useful customer engagement and quality of service metrics and created an analytics plugin to report this data.

**Georgia Tech**, Atlanta, USA

August 2014 – December 2014

*CS 2340(Software Design) TA, College of Computing*

- Guided five teams and graded their semester-long project based on adherence to good design principles and practices.

**Georgia Tech**, Atlanta, USA

August 2014 – December 2014

*PHYS 2211(Kinematics) Teaching Assistant, School of Physics*

- Taught a recitation session of 25 students every week, solved examples and problems and graded test papers.

**Amazon**, Seattle, USA

May 2014 - August 2014

*SDE Intern, Payments Platform*

- Created an automated suite that verified all code changes for booking accounting events using mock events. Worked in the Order-To-Cash (OTC) team, which managed accounting information about transactions taking place on Amazon.com.

## PROJECTS

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**Microsoft**, Redmond, USA

September 2014 - Present

*Walksafe WebApp*

- Developed a model to find the safest walking route from one place to another in Seattle, using google maps and Azure Machine Learning studio, by analyzing publicly available crime data and other features such as time of day and weather conditions.

**Georgia Tech**, Atlanta, USA

April 2015 - Present

*SqueakLogin, Android & Chrome App*

- Created apps to encode and decode two-factor authentication codes via sound, without any user intervention.
- Based the 2<sup>nd</sup> step of authentication on proximity of mobile device to laptop, eliminating the prevalent manual method.

**Atlanta**, USA

September 2014- May 2015

*Prophecy*

- Developed and implemented an algorithm that attempted to uniquely identify individuals based on their typing patterns.

**HackGT** - Georgia Tech Hackathon, Atlanta, USA

September 2014 – May 2015

*OneSync for Windows*

- Created an app to cache a session on one device and restore it on another, using OneDrive.

**Georgia Tech**, Atlanta, USA

August 2014- May 2015

*Intelligent Recipe Website*

- Developed a Web App that utilizes ML to intelligently make ingredient substitutions for people with dietary restrictions.

## SKILLS

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**Languages:** Java, Python, R, JavaScript, Android Java, C#, C++, MySQL and C.

**Libraries/frameworks:** ML Libraries (scikit-learn, weka), Bootstrap, Flask and Node.js

**Platforms:** Ubuntu, GNOME, Red Hat Enterprise Linux, OS X and Windows.