

# Raj Prateek Kosaraju

rajprateek[ at ]gatech [ dot ]edu · [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 (Highest Honors)
- Threads: Artificial Intelligence and Information Internetworks
- **Relevant Coursework:** Web Search and Text Mining (CSE 6240), Data and Visual Analytics (CSE 6242), Machine Learning (CS 7641), Artificial Intelligence (CS 3600), Knowledge Based AI (CS 4735), Statistics & Applications (MATH 3770), and Combinatorics (MATH 3012).

## MANUSCRIPTS IN PREPERATION

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- Bedri, A., Haynes, M., **Kosaraju, R.P.**, Grover, I., Li, R., Starner, T., and Abowd, G. (2016). "Earbit: Detecting eating activities in the wild". (To be submitted to *UbiComp 2016*).

**Contributions:** Pre-processing sensor data, visualizing and analyzing data to extract features, and building a machine learning model to detect eating activities.

## RESEARCH 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 using supervised machine learning on sensor data from modified, 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.

## HONORS & AWARDS

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- **1<sup>st</sup> Place**, IEEE Programming Competition, Atlanta, USA February 2016
- **Quickest Solver x2**, Cardlytics Iron Coder 2015, USA September 2015
- **1<sup>st</sup> Place**, ConocoPhillips Innovation Challenge 2015, OK, USA April 2015
- **1<sup>st</sup> Place**, Georgia Tech Mobile App Dev Hackathon, Atlanta, USA April 2015
- **1<sup>st</sup> Place**, GT IEEE Programming Competition, Atlanta, USA March 2015
- **3<sup>rd</sup> Place**, BizTech Case Challenge 2015, Georgia Tech, Atlanta, USA February 2015
- **Top 10 & Best Project Implementing a Microsoft API**, HackGT, USA September 2014
- **3<sup>rd</sup> Place**, Amazon Global Intern Hackathon, Amazon July 2014
- **Faculty Honors x6**, Georgia Tech, Atlanta, USA August 2012 – Present
- **Exemplary Academic Achievement Award**, Delhi Private School, UAE June 2012
- **Scholar Badge x8**, Delhi Private School, UAE April 2004 - March 2012
- **1<sup>st</sup> Place**, Inter-house Math Quiz, Delhi Private School, UAE Jan 2012

## TA EXPERIENCE

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**Georgia Tech**, Atlanta, USA August 2015 – Present  
*CS 3510(Algorithms- Design & Analysis) TA, College of Computing*  
• Held office hours, helped students with on algorithm design and complexity analysis problem sets and graded homework and exams.

**Georgia Tech**, Atlanta, USA August 2014 – December 2014  
*CS 2340(Objects & Design) TA, College of Computing*  
• Guided 25 students and graded their semester-long projects based on adherence to good design patterns and principles.

**Georgia Tech**, Atlanta, USA August 2014 – December 2014  
*PHYS 2211(Kinematics) TA, School of Physics*  
• Taught a recitation session of 25 students every week, solved examples and problems and graded test papers.

## WORK EXPERIENCE

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**Palantir Technologies**, Palo Alto, USA *(Upcoming)* May 2016 - August 2016  
*Software Engineering Intern*

**Microsoft**, Redmond, USA May 2015 – August 2015  
*Software Engineering Intern, Media Player*  
• Worked on replacing legacy MSN video player from Microsoft sites with Azure Media Player. Determined the most useful customer engagement and quality of service metrics and deployed an analytics frontend plugin that is now live across various Microsoft websites.

**Amazon**, Seattle, USA May 2014 - August 2014  
*Software Engineering Intern, Payments Platform*  
• Created an automated suite that verified all code changes for registering accounting events using mock events. Worked in a team that managed information about transactions taking place on Amazon.com.

## PROJECTS

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**Microsoft**, Redmond, USA May 2015 – August 2015  
*Walksafe WebApp*  
• Developed a model to find the safest walking route between locations in Seattle, using the Azure ML studio, by analyzing publicly available crime data and engineering features.

**Georgia Tech**, Atlanta, USA April 2015 – June 2015  
*SqueakLogin – Simplifying 2-factor auth, Android & Chrome App*  
• Encoded codes in sounds and based the 2<sup>nd</sup> step on proximity of mobile device to laptop.

**Atlanta, USA** September 2014- January 2015  
*Prophecy*  
• Developed and implemented a machine learning model that could uniquely identify individuals based on their characteristic typing patterns.

## SKILLS

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**Languages:** Java, Python, R, JavaScript, Android Java, C#, C++, MySQL and C  
**Libraries & frameworks:** ML Libraries (scikit-learn, weka), .NET, Flask, AngularJS, Node.js