

# Daksh Jotwani

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## Education

- **Purdue University** West Lafayette, IN  
*B.S. Computer Science Honors, B.S. Mathematics* August 2016 - Present
  - GPA: **3.95/4.00**, Dean's List.
  - Expected Graduation Date: **December 2019**.
  - Relevant ongoing courses: Algorithms, Machine Learning and Data Mining, Vector Calculus.
  - Relevant completed courses: Systems Programming, Data Structures and Algorithms, Databases, Computer Architecture, C Programming, Linear Algebra, Real Analysis, Differential Equations.

## Work Experience

- **Purdue University, Department of Computer Science** West Lafayette, IN  
*Undergraduate Research Assistant* September 2018 - Present
  - Research the impact of speculative region-prioritization on search times for data-points in overlapping regions of an  $R^*$ -tree. Based on *The Case For Learned Index Structures* (arxiv.org/abs/1712.01208).
  - Explore logistic regression and neural network models to speculate traversal routes of an  $R^*$ -tree.
- **Purdue University, Department of Computer Science** West Lafayette, IN  
*Undergraduate Teaching Assistant* August 2018 - Present
  - Teach and grade labs for a *Systems Programming* class that covers fundamental system calls and the use of operating systems.
  - Host weekly office hours to answer questions related to lab assignments.
- **Myntra (Walmart Subsidiary)** Bangalore, India  
*Software Engineering Intern* May 2018 - August 2018
  - Worked with *Myntra Labs* to integrate Myntra's online infrastructure with its offline stores.
  - Applied computer vision techniques to monitor store traffic, analyze age/gender demographics, identify returning customers, and detect customer satisfaction.
  - Developed a system where computer vision-based inferences from store cameras are broadcast to store devices to provide personalized services such as product/size recommendations to customers.
- **Purdue University, Department of Physics** West Lafayette, IN  
*Undergraduate Teaching Assistant* August 2017 - May 2018
  - Assisted in running weekly help sessions for an *Electricity and Magnetism* course.
  - Held review sessions to solve practice problems for exams.

## Projects

- **PayShare** May 2018 - Present
  - Developed a web application to split and keep track of expenses amongst a group of people.
  - Applied image processing frameworks and Tesseract OCR to scan receipts and generate a list of items for users to select and split.
  - Working on transitive simplification of group expenses and porting PayShare to Android and iOS.
- **SmartPass** October 2016
  - Built an event-ticketing system which authorizes people using face/voice recognition.
  - Deployed a server to provide face recognition services for iOS devices to identify people at events.

## Skills

**Languages:** C, C++, Python, Java, JavaScript, MATLAB.

**Frameworks:** React, Numpy.