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.