

## Education

### Stanford University

Expected Masters of Science in Computer Science, June 2010

CGPA 3.85 / 4.0

### Jaypee Institute of Information Technology University (India)

Bachelors of Science in Computer Science, June 2007

CGPA 9.2 / 10.0

## Experience

- **Co-Founder, CEO & Lead Architect Zunavision Inc.** (August 2008 – Dec 2009)
  - Developed the core patent pending technology for embedding unobtrusive advertisements inside the 3D space of a video
  - Raised angel funding from David Cheriton
  - Developed the product architecture across multiple platforms & led the company strategy
  - Designed & developed the company's next product around social video - Dropletz
- **Teaching Assistant for Machine Learning at Stanford** (Sep 2009 – Dec 2009)
- **Research Assistant with the STAIR Vision Group at Stanford** (Sep 2007 – Dec 2008)
  - **Multi-Class Object Recognition Using Shared SIFT Features** – Developed a novel vision feature & machine learning algorithms that extend the classic SIFT feature and use it for detecting & recognizing a class of objects instead of specific instances of objects
  - **Object Recognition Using Depth Data** – Developed algorithms for enhancing object recognition using low resolution depth data
  - **High-Accuracy 3D Sensing for Mobile Manipulation: Improving Object Detection & Door Opening** (International Conference on Robotics and Automation) – Designed features & machine learning algorithms for improving object recognition using high resolution depth data
  - **Automatically Augmenting Videos with Virtual Content** (Patent Pending) – Developed a novel set of machine learning & optimization algorithms for fast, easy & realistic augmentation of video surfaces with multimedia content
- **Teaching Assistant for Advanced Data Structures at IIIT** (Jan 2007 – June 2007)
- **Summer Intern at ISS Retail, India** (May 2005 – July 2005)
  - Developed an automated employee performance tracker tool for evaluating software developers on various performance parameters and correlating that with their active projects using Visual Studio .NET, web services, XML and SQL

- **Research at IIIT** (Dec 2004 – Sep 2007)
  - **Interfacing, Modeling and Portability of Sign Language Gestures** (International Conference on Systems, Computing Sciences and Software Engineering)
  - **Vehicle License Plate Identification and Recognition**(Proceedings of the 2009 International Conference on Image Processing, Computer Vision, & Pattern Recognition)
  - **Computer Vision Aided Pottery Classification and Reconstruction** (INDO US Science and Technology Forum on Digital Archaeology)
  - **DigiSlim: A learning tool for logic level digital electronics** (AASE Computers In Education Journal)
  - **Creating panoramic images using SIFT features**
  - **Verifinger: A system for fingerprint comparison using minutiae matching**

## Technical Skills

Machine Learning, Computer Vision, Algorithm Design, C++, C, C#, Ruby, MATLAB, OpenCV, AJAX, HTML, CSS, XML, JavaScript, JAVA, Rails

## Selected Achievements and Awards

- Invented a patent pending set of algorithms for augmenting video surfaces with multimedia content
- Certified by Microsoft to be amongst the 'Top -100' student technologists in India during code4bill, an all India talent hunt
- Awarded the Young IT Professional Award by the Computer Society of India
- A self-developed learning-aid software (DigiSlim) was utilized as a part of the syllabus of an introductory course in digital electronics at IIIT

## Selected Courses at Stanford University

- Machine Learning
- Understanding Images and Videos
- Structured Probabilistic Models
- Data Mining
- Introduction to Computer Vision
- Formation of New Ventures (Graduate School of Business)
- Human Computer Interaction