

# KARTIKEYA SHUKLA

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## EDUCATION

**Northeastern University**, Boston, MA Sept. 2014 – Dec. 2016  
*Master of Science in Computer Science* GPA 3.6/4.0

**Jaypee University of Engineering & Technology**, Guna, India July 2007 – June 2011  
*Bachelor of Technology in Computer Science Engineering*

## TECHNICAL KNOWLEDGE

Languages	Java, C, C++, Python, R, Processing
Web	JavaScript, HTML5, CSS, JQuery, AJAX, AngularJS, Node.js, p5.js
Databases	Oracle 10g, MySQL, MongoDB

## WORK EXPERIENCE

**NVIDIA**, Santa Clara, CA Jan. 2016 – Aug. 2016  
*Graphics Software Intern*

- Implemented a text rendering utility in OpenGL ES which is now being used as the standard solution in the company's testing application.
- Partnered with the Automotive Embedded Graphics team, and contributed to OpenGL ES, EGL, Linux implementations and bug fixes.
- Integrated ccache to code base to reduce build times by 30%, for the Embedded-linux workforce.

**Accenture Services Pvt. Ltd.**, Bangalore, India July 2011 – May 2014  
*Software Engineering Analyst – Promoted from Associate Software Engineer*

- Designed and implemented custom workflows & request-types using PPM and Oracle PL/SQL to automate multiple scheduled activities, which reduced effort hours by 85%.
- Reduced time, by 90%, for performing pre-migration activities by developing Excel macro utility using VB.NET.

## PROJECTS

**Connexion - MEAN Stack** Sept. 2016 – Dec 2016

- Developed a web app to help people meet and collaborate - [Connexion.herokuapp.com](http://Connexion.herokuapp.com)
- Designed the app architecture and implemented the server-side components with Node.js & MongoDB using Mongoose as ORM, and used AngularJS, Bootstrap and Angular Material for the front-end.

**Computer Systems – C** Sept. 2016 – Dec 2016

- Developed Implemented a file system with read/write command-line capabilities to interact with the kernel. A simple derivative of the Unix FFS file system, using the FUSE toolkit in Linux.

**Machine Learning - Java** Sept. 2015 – Dec. 2015

- Built an email spam classifier by implementing various machine learning algorithms like Decision trees, Linear and Logistic Regression, KNN and Active learning.
- Implemented a handwriting recognition system using HAAR feature extraction, ECOC algorithm coupled with SMO and Adaptive Boosting techniques.
- Developed three-layered Neural Network to solve auto encoder decoder problem.

**Particle Systems – Java/Processing** Jan. 2015 – Apr. 2015

- Researched and built a working particle system, with GUI to control behavior of particles such as gravity and texture.
- Documented a tutorial on how to build a particle system - [bit.ly/ParticleSystems](http://bit.ly/ParticleSystems)

**Pacman AI Projects – Python** Sept. 2014 – Dec 2014

- Implemented classical and adversarial search techniques in the Pacman game. Also used reinforced learning & machine learning concepts like Naive Bayes, Perceptron, and MDP etc.