

# Amlan Gupta

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## Education

- 2018 – 2020 **MS. Computer Science and Engineering**, *State University of New York at Buffalo*.  
**Courses:** Algorithms Analysis and Design, Introduction to Machine Learning, Computer Vision and Image Processing, Computer Security, Data Intensive Computing, Distributed Systems
- 2009 – 2013 **B.Tech. Computer Science and Engineering**, *West Bengal University of Technology*.  
**Courses:** Data Structures, Computer Architecture, Automata Theory, Computer Organization, Operating System, Database Management System

## Professional Experience

- 2014 – 2018 **Information Technology Analyst**, *Johnson & Johnson*, Tata Consultancy Services.
- Handled full stack development including design and troubleshooting of the product, conducting gap analysis, validation of needs in conjunction with onsite and offshore teams following agile methodology.
  - Crafted a chatbot framework using Dialogflow that led to 80% cost reduction for client support team.
  - Championed strict code quality control, reinforced best practices, optimized, re-factored existing code bases increasing clarity, consistency and maintainability.
  - Engineered a DevOps model that increased sprint velocity by 18%, reduced code error margin by 28%.
- 2008 – 2014 **Co-founder, Lead Developer**, *Octavio Technologies*, Kolkata, India.
- Provided customized web application solutions to 30+ clients over the years.
  - Developed a SaaS platform that syncs inventory, orders, automatically change prices by analyzing competitor products, provides insights by scouting keywords using Amazon Merchant Web Service API.

## Technical skills

Languages	Java, Javascript, Python, PHP, C, C++, C#, HTML5, CSS3, R
Databases	Oracle, MySQL, SQL Server, MongoDB
Frameworks	Spring, Hibernate, jQuery, AngularJS, NodeJS, Express.js, Bootstrap, Selenium, JUnit
AI/ML	Keras, TensorFlow, scikit-learn, Pandas, Numpy, Matplotlib, OpenCV
Others	Gulp, Less, Sass, Maven, Git, Svn, Jira, Jenkins, Hadoop, Docker

## Academic Projects

- Fall 2018 **Key Point Detection and Template Matching:** Python implementation of SIFT algorithm to find keypoints and cursor detection in a given set of images using OpenCV.
- Fall 2018 **Hough Transform:** Python implementation of the method to extract lines and coins.
- Fall 2018 **Handwriting Comparison:** Predict identities of writer using regression and neural network.
- Fall 2018 **Digit Recognition - MNIST, USPS:** Ensemble different models like Linear regression, Logistic regression, Neural network, Support vector machine, Random Forest using soft voting.
- Fall 2018 **Color Quantization K-means Clustering:** Produces color quantized images for given k values.
- Fall 2018 **Reinforcement learning:** Teach an agent to find the shortest path in grid-world environment.
- Spr 2019 **Total-FIFO Ordering:** An Android group messenger that guarantees total and FIFO ordering
- Spr 2019 **DynamoDB:** Implemented a simpler version of dynamoDB including per-key linearizability and quorum replication using Java .

## Professional Honors

- 2018 **Star Team Award**, Information Technology Analyst, Tata Consultancy Services
- 2017 **Service & Commitment Award**, System Engineer, Tata Consultancy Services
- 2014 **LIREL Honor Rolls**, Assistant System Engineer, Tata Consultancy Services