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.

2007 – 2010 **Co-founder, Technical Lead**, *Kolspot.com*, Kolkata, India.
- Hailed as the first social networking site for Kolkata residents having more than 5k active members.

Technical skills

Languages Java, Javascript, Python, PHP, 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

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 **Learning to Rank (LeToR):** Python based prediction system using stochastic gradient descent.

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.

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