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| **Amlan Gupta** | (716) 602-8071 • gupta.amlan@gmail.com • [amlangupta.com](http://amlangupta.com/)  [linkedin.com/in/amlan-gupta](http://linkedin.com/in/amlan-gupta) • [github.com/nullbringer](http://github.com/nullbringer) | |
| **Education** | | |
| University at Buffalo, The State University of New York | | **Expected Dec 2019** |
| * Master of Science, Computer and Information Science * Courses: Algorithms Analysis and Design, Introduction to Machine Learning, Computer Vision and Image Processing, Computer Security, Data-Intensive Computing, Distributed Systems, Software Verification | | |
| West Bengal University of Technology, India | | **Jul 2013** |
| * Bachelor of Technology, Computer Science and Engineering * Courses: Data Structures, Computer Architecture, Automata, Operating System, Database Management | | |
| **Employment** | | |
| **Software Engineer** | **Tata Consultancy Services, Johnson & Johnson** | Mar 2014 – Jul 2018 |
| * Performed full-stack development including design and troubleshooting of the product, validation of needs in conjunction with onsite and offshore teams following Agile-Scrum methodology. * Crafted a chatbot framework using Dialogflow that induced 80% cost reduction for the 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 boosted sprint velocity by 18%, reduced code error margin by 28%. | | |
| **Skills** | | |
| * **Languages:** Java, Javascript, Python, PHP, 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, Jira, AWS, Jenkins, Hadoop, Docker, D3, GraphQL | | |
| **Projects** | | |
| * **Amazon Auto-repricing** (2015): A SaaS platform powered by Amazon Merchant Web Service API that syncs inventory, orders, automatically adjusts prices by analyzing competitor products. (*Java, MySQL, AngularJS*) * **Kolspot** (2010): Co-founded, developed the first social networking site for the residents of Kolkata, an eastern city in India. Had more than 5000 active members in its prime. (*PHP, MySQL, jQuery*) * **Big Data Analysis and Visualization** (2019): Using multiple live data sources, engineered a data acquisition and analytics pipeline that explored data on top companies (*Hadoop, MapReduce, spaCy, D3, Docker*) * **Digit Recognition** (2018): The project ensembles different prediction models like Linear regression, Logistic regression, Neural network, SVM, Random Forest by soft voting on MNIST, USPS dataset. (*Python, Keras*) * **Reinforcement learning** (2018): Using Deep Q-Learning process, the agent learned to navigate the grid-world environment and chases the target in the most efficient manner. (*Python, Keras, Tensorflow*) * **Group Messenger** (2019): A distributed peer-to-peer group messaging app that guarantees Total-FIFO ordering using ISIS algorithm. The system is fault-tolerant and easily scalable. (*Java, Android, Socket*) * **SimpleDynamo** (2019): Amazon Dynamo styled scalable key-value storage with partitioning, quorum-based replication, and failure handling that guarantees simultaneous availability, linearizability, and eventual consistency. (*Java, Android, Socket Programming*) * **FSM 2.0** (2019): An eclipse plugin that extracts and draws finite-state models from execution traces of Java programs and performs runtime property checking of the model. The properties are stated in propositional temporal logic augmented with built-in data types. (*Java, Plant-UML*) | | |
| **Professional Honors** | | |
| * Star Team Award, 2018 | * Service & Commitment Award, 2017 | * LIREL Honor Rolls, 2014 |