

# MOHIT ARVIND KHAKHARIA

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Competent web, mobile and software developer with over four years of professional experience in JAVA/J2EE, UI/UX, Analytics, IBM Tech stack, Machine Learning and Data science in E-Commerce. An end-to-end software development lifecycle experience, starting with requirements gathering & development to deployment & maintenance. Reputation for complex problem resolution, productivity and professionalism.

## EDUCATION

**UNIVERSITY AT BUFFALO,  
THE STATE UNIVERSITY OF NEW YORK**  
Master of Science in **Computer Science**, Dec 2017  
Specialization - Artificial Intelligence  
GPA 3.81/4.0

**SSN COLLEGE OF ENGINEERING  
CHENNAI, INDIA**  
Bachelor of Technology - Information Technology, 2009 – 2013  
GPA - 3.18(153 Credits) and CGPA - 7.67/10

## EXPERIENCE

**BUFFALO AUTOMATION, NEWYORK**  
**Intern, Deep Learning Engineer**, 06/2017 – Present

- Design and implement a Neural Network for real-time offline image recognition and object classification in a self-navigating maritime system.
- Design and implement a Neural Network for obtaining the depth of objects from stereoscopic images for aiding a self-navigating maritime system.

**UNIVERSITY AT BUFFALO, THE STATE UNIVERSITY OF NEW YORK**  
**Student Research Assistant**, 11/2016 – 06/2017

- End to End Stack Developer for the research experiment called, "Customizability Project". The users are shown with news articles in a pseudo-randomized order and intense analytics on the user's behavior is done to study and tailor their influence on individual's political attitude and beliefs.

**Student Assistant**, 11/2016 – 06/2017

- Web Developer and maintenance of the (<http://www.buffalo.edu/ubit.html>) at the UB Information Technology center. Key responsibilities include implementing new functionalities, UI bug fixes, Server migration and managing containers.

**SIRIUS COMPUTER SOLUTIONS, CHENNAI, INDIA**  
**Consultant Developer**, 04/2015 – 07/2016

- Project Lead for Developing E-Commerce web application for **Mattel Inc.** which includes e-stores to **Fisher Price**, **Barbie** and **Hot Wheels**.
- Developing a Keyword driven, Tool-Agnostic automation testing framework used to test web & mobile applications(<http://onesource.xyz/onesource.web/>).
- Designing and developing wireframes for visualization of applications to be developed.

**AVNET SERVICES, CHENNAI, INDIA**  
**Consultant Developer**, 04/2014 – 03/2015

- Maintenance and bug-fixes on **Tommy Hilfiger** and **Calvin Klein** E-Commerce web portals.
- Integration of **IBM Watson** cognitive computing services like, sentiment analysis, personality insights service, face detection to existing projects.
- Developed a Customer Service Representative (CSR) Application & plugged it to IBM WebSphere Commerce.

**Associate Consultant Developer**, 06/2013 - 03/2014

- Developed an IBM WebSphere E-commerce application; <http://speedousa.com/> in an agile fashion with a team of six developers.
- Implemented a reporting cum auditing solution for Lloyds Bank, UK using IBM WebSphere Experience Factory.
- Bug fixing and enhancements on <http://shop.ihs.com>
- Getting Enabled on different IBM Technologies along with Google Cloud, Google Analytics, Google Tag Manager, Search Engine Optimization, Oracle APEX, Android development.

## TECH SKILLS

- **Languages Server Side:** JAVA, Python, JavaScript (NodeJS).
- **Languages Client Side:** JavaScript, HTML5, CSS3, Sass
- **Database & Search:** Oracle, MySQL, IBM DB2, Google Cloud Datastore.
- **Operating Systems:** Microsoft Windows 10/8/7, MAC OS X, Red Hat Linux and Ubuntu.
- **Frameworks/Libs:** **J2EE** - Struts, Spring MVC, Hibernate, **Robotics** - Robotics Operating System, TensorFlow. **UI** - jQuery, Dojo, Bootstrap, AngularJS, Sass.
- **Enterprise Solutions:** SOLR, WebSphere Commerce V7.0, IBM Digital Experience 8.0, IBM Web Experience Factory 8.0, Oracle Application Express.

## CERTIFICATIONS

- The Complete Guide to TensorFlow 1.x on [Udemy](#), Year – 2017
- Data Science - Deep Learning in Python [Udemy](#), Year - 2017
- IBM Certified Application Developer WebSphere Commerce V7.0 (FEP 7), Year - 2015
- IBM Certified Solution Developer Web Experience Factory 8.0, Year - 2014
- Adobe authorized course in "2D & Web Designing" at CYS Multimedia, Year- 2012
- AFCEH (Ankit Fadia's Certified Ethical Hacker), Year- 2011

## PROJECTS

### Master of Science in Computer Science

*August 2016 – December 2017*

- **Inpainting** - Implement different types of **denoising autoencoder neural networks** that preserve the concerning information & nullify the effect of corruption applied to the same input (i.e) Dimensionality reduction via noise removal.
- **Grid Localization using Bayes Filter** - the algorithm finds out the probabilities of the robot presence at every grid cell. The grid cells with maximum probabilities at each step, characterize the robot's trajectory and thus leads to the enhancement of robot's Belief.
- Created an **AI Chatbot** answering questions on Demonetization using wit.ai, NLTK, Twitter Streaming API, SOLR and deployed it on Django server running on AWS. Also implemented custom algorithms for TAAT & DAAT processing. It is hosted at <http://pingher.com/>
- Implemented a **custom Dynamo DB** for a multi-threaded Android chat system which provided both availability and linearizability at the same time. Read and write operations are guaranteed even under failures and reads will return the most recent value. Messages are hashed using SHA-1 and assigned to a node.
- Implemented a **Multilayered Perceptron Neural Network** and evaluated its performance in classifying handwritten digits. Also used the same network to analyze a more challenging face dataset and compared the performance of the custom neural network against a deep neural net implementation using TensorFlow.

### Bachelor of Technology - Information Technology

*December 2012 – May 2013*

- Developed a **multimodal biometric identification system** by coupling the features of palm vein and finger vein patterns to enhance security and detect frauds with the help of BOGAZICI UNIVERSITY, Turkey.

## AWARDS

### Above & Beyond, Avnet services, India (Jan 2015)

- For outstanding performance in the agile development of an E-Commerce application for Speedo USA, which had highly volatile requirements

### Paper Presentation, Minkalam'13, India (Feb 2013)

- Awarded the first place for Paper Presentation on "Palm Vein Biometrics" at Minkalam'13, National Level Technical Symposium hosted at Jeppiaar Engineering College on 27th Feb 2013.

### Paper Presentation, Mindsurf'12, India (Sep 2012)

- Awarded the first place for Paper Presentation on "Multimodal Vein Pattern Detection System" at "MindSurf", a national level technical symposium held at Jerusalem College of Engineering on 21st Sep 2012.

## AREAS OF INTEREST

- |                    |                         |                            |
|--------------------|-------------------------|----------------------------|
| ▪ TensorFlow       | ▪ E-Commerce            | ▪ Web and Mobile Analytics |
| ▪ Watson services  | ▪ Amazon Web Services   | ▪ Deep Learning            |
| ▪ Robotics – ROS   | ▪ Google Cloud Platform | ▪ Mongo DB                 |
| ▪ Machine Learning | ▪ Google Cloud ML       | ▪ Information Retrieval    |