

# ABHISHEK DINKAR RAUT

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## EDUCATION

<b>Binghamton University, State University of New York</b> Master of Science in Computer Science	August 2017-May 2019 GPA: 3.35/4.00
<b>Sant Gadge Baba Amravati University, Amravati, India</b> Bachelor of Engineering in Electronics and Telecommunication Engineering	August 2010-May 2014 GPA: 4.00/4.00

## TECHNICAL SKILLS

- Java, Python, C#, C++, C, PL/SQL, HTML, CSS, JavaScript
- .NET Framework, Spring Framework, Ruby on Rails, Node.js, React, Redux, SOAP, REST, MS SQL Server, PostgreSQL, SQLite, MongoDB
- Microsoft Azure, Google Cloud Platform, AWS, TensorFlow, Docker, Kubernetes, Selenium, Maven, Ant, Git, TFS, Shell
- Agile Methodology, Scrum, Maintenance, Debugging, SDLC, TDD, CI/CD pipeline, Microservices, Client-facing, Leadership, AWS Certified Cloud Practitioner, Artificial Intelligence Research publications: <https://tinyurl.com/googlepub>

## EXPERIENCE

<b>DXC Technology, El Paso, TX</b> Software Engineer	January 2020-present
<ul style="list-style-type: none"><li>• Developed software solutions, test cases, and documentation for the Nevada Medicaid System using C, Oracle DB, and Unix</li><li>• Identified and resolved the Provider ID leading zero defect of the interChange Healthcare Platform, which was affecting 150,000+ users</li></ul>	
<b>Live in Bing, Binghamton, NY</b> Data Science Intern	May-August 2018
<ul style="list-style-type: none"><li>• Built a web application and neural network model for processing real estate data to predict property rent for incoming international university students using Python, React, Flask, SQLite, Keras, and TensorFlow</li><li>• Facilitated 1200+ international students in search of off-campus housing in the US by providing house rent estimation</li></ul>	
<b>Last Minute Preparation, Amravati, India</b> CEO and Founder	December 2015-July 2017
<ul style="list-style-type: none"><li>• Collaborated with a cross-functional team of seven individuals to provide software training to 600+ undergraduate engineering students and achieved 250+ IT job placements</li><li>• Developed an eLearning website with features for Authentication, Enrollment, Payment Processing, Student Evaluation, and Feedback using HTML, CSS, JavaScript, jQuery, AJAX, and C# over ASP.NET MVC5</li></ul>	
<b>Infosys Limited, Mysore, India</b> Systems Engineer	December 2014-December 2015
<ul style="list-style-type: none"><li>• Developed and provided support for the LOB applications of Infosys's Document Management System and achieved a client rating of 5.8/6.0</li><li>• Provided full life cycle support to the Infosys HR client from initial client interaction and requirement analysis through design, coding, testing, debugging, software implementation, and integration</li><li>• Developed a Maker-Checker Browser for Claims processing workflow with features for Document &amp; Profile Management, Audit Trail, and Reports</li><li>• Reported and rectified the large file upload issues on the SharePoint applications, which was affecting the entire user base of 5,800 users</li><li>• Developed a Large File Upload Client from scratch using the File Transfer Protocol to upload files to the server with a size above 40 MB</li><li>• Skills Used: .NET Framework, Microsoft SQL Server, Java, Python, C#, SQL, HTML, CSS, JavaScript, jQuery, and AJAX</li></ul>	

## PROJECTS

<b>Non-rigid Medical Image Registration System using Deep Learning</b> Research Project, Professor Dr. Weiying Dai's Lab, Binghamton University, NY	February 2018–December 2018
<ul style="list-style-type: none"><li>• Built a Registration Framework (Python) based on a Convolutional Neural Network that directly learns transformations between pairs of three-dimensional images without the need of manually annotated ground truth deformation information using Keras with a TensorFlow backend</li><li>• Achieved fast transformation estimation result in 180 milliseconds (average) on an NVIDIA GTX Titan X GPU with Pearson's correlation coefficient of 0.94 mm (x), 0.88 mm (y), and 0.49 mm (z) displacements between the ground truth and estimation for 300 pair of images of ADNI dataset</li></ul>	
<b>GPS Coordinates Emergency Alert Application</b> Academic Project, Binghamton University, NY	August 2018- December 2018
<ul style="list-style-type: none"><li>• Developed an Android application with functionality to send a location alert message while saving critical time during an emergency</li><li>• Used Accelerometer sensor and Kalman Filter algorithm to recognize shake gesture and Google Fused Location Provider API for location data</li></ul>	
<b>Recommender System</b> Academic Project, Binghamton University, NY	January 2018-May 2018
<ul style="list-style-type: none"><li>• Developed a recommender system (Java) using the Item-based Collaborative filtering and Adjusted cosine similarity to compute the item similarity</li><li>• Achieved low 0.9 root mean squared error for the MovieLens Dataset of 1 million entries by implementing Weighted sum approach for prediction</li></ul>	
<b>Smart Gas Stove</b> Research Project, Massachusetts Institute of Technology (MIT) Media Lab, Mumbai, India	January-February 2014
<ul style="list-style-type: none"><li>• Designed a Smart Gas Stove with smartphone functionality for burner dial control and timer using Raspberry Pi to control servomotor over Wi-Fi</li><li>• Achieved a 30% increase in cooking time efficiency and a 20% decrease in monthly expenditure for Dharavi catering businesses</li></ul>	
<b>Control Model of Adaptive Headlight System</b> Independent Work, IETE Cynosure (ICCEE-2013), Lonere, India	August 2012-December 2013
<ul style="list-style-type: none"><li>• Developed an economical Adaptive Headlight Microcontroller based system (C++) to adjust the automobile's headlights to the road curves based on steering rotation using the CAN bus protocol</li><li>• Awarded the Institution of Electronics and Telecommunications Engineers (IETE) Mumbai Centre's Young Researchers Award (selected from 110 national and international researchers)</li></ul>	