

ABHISHEK DINKAR RAUT

200 Desert Pass St, Apt. 632, El Paso, TX 79912 | 607-444-2396 | araut1@binghamton.edu | abhishekraut.com | [linkedin.com/in/abhishekraut](https://www.linkedin.com/in/abhishekraut)

EDUCATION

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

SKILLS

Languages: Java, Python, C#, C++, C, PL/SQL, HTML, CSS, JavaScript	Databases: Oracle, Microsoft SQL Server, MySQL, SQLite, PostgreSQL, MongoDB
Frameworks: .NET, Spring, React, Flutter, Django, Tensorflow, Junit	Tools: Jenkins, Docker, Kubernetes, Git, Jira, Jupyter, Coverity
Cloud Services: AWS Certified Cloud Practitioner	
Research: Published Research papers in Computer networks, WSN, and the Artificial Intelligence field: https://tinyurl.com/googlepub	

EXPERIENCE

Gainwell Technologies, El Paso, TX Software Engineer	January 2020 - present
<ul style="list-style-type: none">Developed software solutions, test cases, and documentation for the Nevada Medicaid System and was awarded Star Performer award - Aug' 20Reconstructed Nevada Medicaid's Medical Assistance Provider Incentive Repository (MAPIR) program from Java into a more effective embedded SQL C program and improved performance by 79%Identified and resolved the Provider ID leading zero defect by developing Unix job scripts, which was affecting 150,000+ healthcare providers	
Live in Bing, Binghamton, NY Data Science Intern	May 2018 - August 2018
<ul style="list-style-type: none">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 TensorFlowFacilitated 1200+ international students in search of off-campus housing in the US by providing house rent estimation	
Last Minute Preparation, Amravati, India CEO and Founder	December 2015 - July 2017
<ul style="list-style-type: none">Collaborated with a cross-functional team of seven individuals to provide software training to 600+ undergraduate engineering students and achieved 250+ IT job placementsDeveloped 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	
Infosys Limited, Mysore, India Systems Engineer	December 2014 - December 2015
<ul style="list-style-type: none">Developed and provided support for the LOB applications of Infosys's Document Management System and achieved a client rating of 5.8/6.0Developed a Maker-Checker Browser for Claims processing workflow with features for Document & Profile Management, Audit Trail, and ReportsReported and rectified the large file upload issues on the SharePoint applications, which was affecting the entire user base of 5,800 usersDeveloped a Large File Upload Client from scratch using the File Transfer Protocol to upload files to the server with a size above 40 MB	

PROJECTS

Non-rigid Medical Image Registration System using Deep Learning Research Project, Research Assistant, Professor Dr. Weiying Dai's Lab, Binghamton University, NY	February 2018 - December 2018
<ul style="list-style-type: none">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 backendAchieved 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	
GPS Coordinates Emergency Alert Application Academic Project, Binghamton University, NY	August 2018 - December 2018
<ul style="list-style-type: none">Developed an Android application with functionality to send a location alert message while saving critical time during an emergencyUsed Accelerometer sensor and Kalman Filter algorithm to recognize shake gesture and Google Fused Location Provider API for location data	
Recommender System Academic Project, Binghamton University, NY	January 2018 - May 2018
<ul style="list-style-type: none">Developed a recommender system (Java) using the Item-based Collaborative filtering and Adjusted cosine similarity to compute the item similarityAchieved low 0.9 root mean squared error for the MovieLens Dataset of 1 million entries by implementing Weighted sum approach for prediction	
Smart Gas Stove Research Project, Massachusetts Institute of Technology (MIT) Media Lab, Mumbai, India	January 2014 - February 2014
<ul style="list-style-type: none">Designed a Smart Gas Stove with smartphone functionality for burner dial control and timer using Raspberry Pi to control servomotor over Wi-FiAchieved a 30% increase in cooking time efficiency and a 20% decrease in monthly expenditure for Dharavi catering businesses	
Control Model of Adaptive Headlight System Independent Work, IETE Cynosure (ICEEE-2013), Lonere, India	August 2012 - December 2013
<ul style="list-style-type: none">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 protocolAwarded the Institution of Electronics and Telecommunications Engineers (IETE) Mumbai Centre's Young Researchers Award - 2013 (selected from 110 national and international researchers)	