ABHISHEK DINKAR RAUT

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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	August 2010 - May 2014
Bachelor of Engineering in Electronics and Telecommunication Engineering	GPA: 4.00/4.00
SKILLS	
Languages: Java, Python, C#, C++, C, 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, Coverity Research: Published Research papers in Computer networks, WSN, and the Artificial Intelligence field: tinyurl.com/citationsar EXPERIENCE	
Gainwell Technologies LLC	January 2020 - present
Professional Programmer Analyst	El Paso, TX
 Developed robust software solutions, test cases, and documentation for the Nevada Medicaid System Reconstructed the Medicaid Management Information Systems (MMIS) program by transforming it from Java to a more efficient embedded SQL C program, resulting in a 79% performance improvement 	
• Spearheaded the migration of the claims batch application workload from Unix to Linux, facilitating the transition AWS Cloud, resulting in a 15% cost reduction through resource optimization	
Mitigated critical defects in the Provider Enrollment Portal, safeguarding the operations of over 130,000 healthcar	e providers
Last Minute Preparation	December 2015 - July 2017
 CEO and Founder Led a cross-functional team of seven individuals, providing software training to over 600 students and achieving 25 	Amravati, India
 Developed an eLearning website with features for Authentication, Enrollment, Payment Processing, Student Evalu CSS, JavaScript, jQuery, AJAX, and C# over ASP.NET MVC5 	
Infosys Limited	December 2014 - December 2015
Systems Engineer	Mysore, India
 Developed and supported LOB applications for Infosys's Document Management System, earning a client rating of Developed a Maker-Checker Browser for Claims processing workflow with features for Document & Profile Manage Identified and rectified the large file upload issues on the SharePoint applications, which was affecting the entire u Developed a Large File Upload Client from scratch using the File Transfer Protocol to upload files to the server with 	ement, Audit Trail, and Reports ser base of 5,800 users
PROJECTS	
 Non-rigid Medical Image Registration System Using Deep Learning Research Project, Research Assistant, Professor Dr. Weiying Dai's Lab, Binghamton University Built a Registration Framework (Python) based on a Convolutional Neural Network that directly learns transfor dimensional images without the need for manually annotated ground truth deformation information using Keras v Achieved fast transformation estimation result in 180 milliseconds (average) on an NVIDIA GTX Titan X GPU with P 0.94 mm (x), 0.88 mm (y), and 0.49 mm (z) displacements between the ground truth and estimation for 300 pair of the set of the se	vith a TensorFlow backend earson's correlation coefficient of
GPS Coordinates Emergency Alert Application Academic Project, Binghamton University	August 2018 - December 2018 Binghamton, NY
 Developed an Android application with functionality to send a location alert message while saving critical time dur Used Accelerometer sensor and Kalman Filter algorithm to recognize shake gesture and Google Fused Location Pro- 	ng an emergency
Recommender System	January 2018 - May 2018
Academic Project, Binghamton University	Binghamton, NY
• Developed a recommender system (Java) using Item-based Collaborative filtering and Adjusted cosine similarity to	-
Achieved low 0.9 root mean squared error for the MovieLens Dataset of 1 million entries by implementing a Weight	ted sum approach for prediction
Smart Gas Stove	January 2014 - February 2014
Research Project, Massachusetts Institute of Technology (MIT) Media Lab	Mumbai, India
 Designed a Smart Gas Stove with smartphone functionality for burner dial control and timer using Raspberry Pi to 0 Achieved a 30% increase in cooking time efficiency and a 20% decrease in monthly expenditure for Dharavi caterin 	
Control Model of Adaptive Headlight System	August 2012 - December 2013

ontrol Model of Adaptive Headlight System

- Independent Work, IETE Cynosure (ICCEEE-2013)
 - Developed an economical Adaptive Headlight Microcontroller system (C++) to adjust the automobile's headlights to the road curves based on steering ٠ rotation using the CAN bus protocol
 - Awarded the Institution of Electronics and Telecommunications Engineers (IETE) Mumbai Centre's Young Researchers Award 2013 (selected from 110 national and international researchers)

PATENTS

Lonere, India