

# ABHISHEK DINKAR RAUT

30 Leroy St, Binghamton, NY 13905 | (607) 444-2396 | [araut1@binghamton.edu](mailto:araut1@binghamton.edu) | [www.abhishekraut.com](http://www.abhishekraut.com)

## EDUCATION

<b>Binghamton University, State University of New York</b> Master of Science in Computer Science	August 2017-May 2019 GPA: 3.35/4.0
<b>Sant Gadge Baba Amravati University, Amravati, India</b> Bachelor of Engineering in Electronics and Telecommunication Engineering	August 2010-May 2014 GPA: 4.0/4.0

## TECHNICAL SKILLS

- Java, Python, C#, C++, C, PL/SQL, HTML, CSS, JavaScript
- .NET Framework, Spring Framework, Ruby on Rails, Node.js, ReactJS, Redux, SOAP, REST, MS SQL Server, PostgreSQL, MongoDB
- Google Cloud Platform, Amazon AWS, TensorFlow, Docker, Kubernetes, Selenium, Maven, Ant, Git, TFS, Shell
- Agile Methodology, Scrum, Maintenance, Debugging, SDLC, TDD, CI/CD pipeline, Microservices, Client-facing, Leadership, Artificial Intelligence (Four Research publications)

## EXPERIENCE

<b>Live in Bing, Binghamton, NY</b> Data Science Intern	May-August 2018
--	-----------------

- Built a web application and Recurrent Neural Network machine learning model (Python, Flask, SQLite, and TensorFlow) for processing real estate data to predict Property rent and achieved a 5% revenue increase

<b>Last Minute Preparation, Amravati, India</b> CEO and Founder	December 2015-July 2017
--	-------------------------

- Collaborated with a cross-functional team of seven individuals to provide Software training to 600+ undergraduate engineering students and achieved 250+ IT placements
- Developed a Student Enrollment software (ASP.NET MVC 5) for Sipna College of Engineering and Technology, India

<b>Infosys Limited, Mysore, India</b> Systems Engineer (.NET Developer)	December 2014-December 2015
--	-----------------------------

- **Document Management System:** Provided full life cycle support to the client (Infosys) from initial client interaction and requirement analysis through design, coding, testing, debugging, software implementation, and integration (Client rating: 5.8/6.0)
- **Maker-Checker Browser:** Developed a LOB application for Infosys's claims processing workflow with features for Document Management, Profile Management, Audit Trail, and Reports
- **Large File Master Client:** Developed a LOB application to upload media resources to the server and manage audio, video, and image contents with size above 40 MB

<b>Massachusetts Institute of Technology (MIT) Media Lab, Cambridge, MA</b> Software Engineering Intern (Grassroots Engineering)	January-February 2014
---	-----------------------

- Designed a Smart Gas Stove with Smartphone functionality for Burner Dial settings and Timer using Raspberry Pi to control Servo Motor by Android application over Wi-Fi
- Achieved a 30% increase in cooking time efficiency and a 20% decrease in monthly expenditure for Dharavi Catering businesses

## PROJECTS

<b>Medical Image Registration System</b> Research Project, Professor Dr. Weiying Dai's Lab, Binghamton University, NY	February 2018–December 2018
--	-----------------------------

- Developed a Deep Learning tool (Python) for registering Computerized Tomography scan of the Kidney
- Built a Registration Framework based on a three-dimensional Convolutional Neural Network that directly learns transformations between pairs of three-dimensional images

<b>GPS Coordinates Emergency Alert Application</b> Academic Project, Binghamton University, NY	August 2018- December 2018
---	----------------------------

- Developed an Android application with functionality to send a Location Alert message while saving critical time during an emergency
- Used Accelerometer sensor and Kalman Filter Algorithm to recognize Shake Gesture and Google Fused Location Provider API

<b>Recommender System</b> Academic Project, Binghamton University, NY	January 2018-May 2018
--	-----------------------

- Developed a recommender system (Java) using the Collaborative filtering approach
- Used Item-based Collaborative filtering and Adjusted cosine similarity to compute the item similarity
- Predicted the missing values for a user by the Weighted sum approach

<b>Control Model of Adaptive Headlight System</b> Independent Work, IETE Cynosure (ICEEE-2013), Lonere, India	August 2012-December 2013
--	---------------------------

- Developed an Adaptive Headlight Microcontroller based system (C++) using the CAN bus protocol
- Designed the system to adjust the automobile's headlights to curves in the road based on steering rotation and vehicle yaw rotation
- Awarded the Institution of Electronics and Telecommunications Engineers (IETE) Mumbai Centre's Young Researchers Award (selected from 110 national and international researchers)