ABHISHEK DINKAR RAUT

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EDUCATION

Binghamton University, State University of New York August 2017-May 2019
Master of Science in Computer Science GPA: 3.35/4.0

Sant Gadge Baba Amravati University, Amravati, India August 2010-May 2014
Bachelor of Engineering in Electronics and Telecommunication Engineering 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, Enterprise IT infrastructure, Artificial intelligence Projects (4 Research publications)

EXPERIENCE

Live in Bing, Binghamton, NY May-August 2018
Data Science Intern

- Built a web application and machine learning model (Python and TensorFlow) for collecting and processing real estate data to meet business goals related to house rent and customer satisfaction prediction using Recurrent Neural Network

Last Minute Preparation, Amravati, India December 2015-July 2017
CEO and Founder

- 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

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

- **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
- **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 access media resources from the server and manage audio, video, and image contents with size above 30 MB

PROJECTS

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

- 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

GPS Coordinates Emergency Alert Application August 2018- December 2018
Academic Project, Binghamton University, NY

- 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

Recommender System January 2018-May 2018
Academic Project, Binghamton University, NY

- 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

Smart Gas Stove January-February 2014
Research Project, Massachusetts Institute of Technology (MIT) Media Lab, Cambridge, MA

- 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

Control Model of Adaptive Headlight System August 2012-December 2013
Independent Work, IETE Cynosure (ICCEEE-2013), Lonere, India

- 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)