Abhishek Dinkar Raut

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EDUCATION

Binghamton University, State University of New York — Expected May 2019
Master of Science in Computer Science — GPA: 3.4/4.0

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, ReactJS, Node.js, JSP, SOAP, REST, XML, JSON, MySQL, Microsoft SQL Server, MongoDB, Shell
- Google Cloud Platform, Amazon AWS, TensorFlow, Docker, Kubernetes, Selenium, Maven, Ant, Git, TFS
- Agile Methodology, Scrum, Maintenance, Debugging, SDLC, TDD, CI/CD pipeline, Client-facing, Leadership, AI Development (4 Research publications), Enterprise IT infrastructure

EXPERIENCE

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

- Built a web application and machine learning models (Python and TensorFlow) for collection and processing of real estate data to meet business goals related to rent and Customer satisfaction

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+ engineering students and achieved 250+ placements
- Developed a Student Enrolment 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 lifecycle 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

C-Net Solutions (I) private Ltd., Nagpur, India — May-August 2013
Summer Intern

- Configured and deployed routers and switches for SMBs; performed configuration such as DHCP along with relay agent, VLAN, NTP, DNS, and 802.1X authentication
- Administered network infrastructure of SMB clients by implementing configuration changes and resolving the connectivity issues

PROJECTS

Medical Image Registration and Fusion Processing System — February 2018–October 2018
Research Project, Binghamton University, NY

- Developed a Deep Learning tool (Python) using Convolutional Neural Networks for registering Computerized Tomography (CT) kidney images

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

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

- Developed an Adaptive Headlight Microcontroller based system (C++) using the CAN bus protocol
- Designed a system to control LED headlights 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)

Q-CSMA: Queue-Length based CSMA/CA Algorithm — August 2013-May 2014
Independent Work

- Proposed a discrete-time version of the CSMA algorithm (Java), where multiple links are allowed to update their states in a single time slot
- Decreased Delays by 11% (average) while retaining the throughput-optimality property in Wireless Networks