

ASWATHY MOHAN

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EDUCATION

New York University , Tandon School of Engineering, Brooklyn	May 2020
Master of Science, Computer Science	
Honors: Awarded merit-based Scholarship	
Rutgers University , New Brunswick	May 2018
Data Science Bootcamp	
Model Engineering College , India	May 2014
Master of Technology, Computer Science, CGPA 4.0/4.0	
Coursework: Image Processing, Computer Graphics, Computer Vision, Pattern Recognition	
Honors: Top 10 in University and Merit based scholarship.	
Viswajyothi College of Engineering and Technology , India	May 2011
Bachelor of Technology, Computer Science, CGPA 3.68/4.0	

TECHNICAL SKILLS

Coding Languages	Proficient: C++, Python; Working Knowledge: Java, Spring, Hibernate
Data Visualization Tools	Excel, VBA, Numpy, Pandas, Plotly, Matplotlib, Seaborn, Tableau, IPywidgets, API's, JSON, D3.js
Web Development	JavaScript, Node.js, React.js, HTML, CSS, Bootstrap, AJAX
Database	MySQL, MongoDB, SQLAlchemy
Other Tools	MATLAB, GitHub, Machine Learning, Keras, TensorFlow, Flask, Latex

ACADEMIC PROJECTS

JobFitt (Python, MongoDB, D3.js, Machine Learning)	May 2018
• Designed a job recommendation application using Machine Learning and hosted online.	
Jamalyze (Flask, SQLAlchemy, Leaflet, JavaScript)	April 2018
• Created the backend that explores concert trends across nation based on genre and location.	
Earthquake Pattern Analyzer (Leaflet, GeoJson, D3.js)	March 2018
• Visualized Earthquake data over the world for past 7 days exploring data from USGS.	
Twitter Bot (Python, Tweepy, Vader Sentimental Analysis)	Feb 2018
• Constructed a bot to perform Sentimental Analysis on tweets on #amfromBot.	
Mental Health Analysis in US (Python, Plotly)	Jan 2018
• Analyzed the mental health data from CDC and BRFSS (2011-2016) and visualized mental health across states in USA	
2D-3D texture Unification for Volume Rendering (C++, VTK)	May 2014
• Developed a project to apply texture mapping to volumetric data sets and combined data slices to create 3D volumes	
Feedback Management System (Java, JavaScript, MySQL)	March 2010
• Designed and implemented a Software to collect feedback of various facilities in the college.	

EXPERIENCE

ASSISTANT PROFESSOR	Aug 2014-Oct 2015
College of Engineering, Thrissur and College of engineering Vadakara, India	
• Developed and delivered Computer Science courses 60 students and administered 120 students in their path of Engineering.	
• Organized faculty development programs.	
• Subjects: Theory of Computation, Security in Computing, Microprocessor (8086,8085) Programming, C++ Programming.	
ASSOCIATE CONSULTANT	Aug 2011-July 2012
Oracle Financial Services Software Ltd, Bangalore	
• Created front end design for Citibank	
• Daily check-in and check-out of application	

PUBLICATIONS

- Aswathy Mohan, Jayasree K, 2D 3D Texture Unification for Volume Rendering. International Journal of Research in Information Technology.
- Aswathy Mohan, Mary Linda P A, Image Enhancement Using DWT DCT and SVD. Int. Journal of Engineering Research and Applications.
- Aswathy Mohan, Mary Linda P A, Larry Liston, Remya B Nair, Lisha P P, Ramp Secret Sharing Approach to Authentication and Data Repairing for Document Image. Int. Journal of Engineering Research and Applications.

CERTIFICATIONS

- Deep Learning Course by Andrew Ng, Coursera.