George Mathew

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EDUCATION

NORTH CAROLINA STATE
PhD in Computer Science
Expected May 2019| Raleigh, NC
Current. GPA: 4.0 / 4.0

MS in Computer Science
Aug 2014 - May 2016 | Raleigh, NC
Current. GPA: 4.0 / 4.0

AMRITA UNIVERSITY
B.Tech in Electronics Engg
Jul 2008 - May 2012 | CBE, India
College of Engineering
Cum. GPA: 3.92 / 4.0

FOOTPRINTS

Github: **bigfatnoob**
LinkedIn: **georgevmathew**
Twitter: **@dbigfatnoob**
Facebook: **george.mathew.1690**

COURSEWORK

GRADUATE
- Advanced Machine Learning
- Automated Software Engineering
- Advanced Algorithms
- Database Management Systems
- Compilers
- Algorithms for Data Guided Business Intelligence

UNDERGRADUATE
- Pattern Recognition
- Image Processing
- Speech Recognition using SVM

SKILLS

PROGRAMMING
Experienced:
Java • JavaScript • HTML • Matlab
MySQL • Python • MongoDB • CSS
Semi-Pro:
C++ • R • Redis • Clojure • LaTeX
• Shell • Ruby on Rails
Familiar:
PHP • Android • Perl • Haskell

PET PROJECTS
Region.io : Online bookmark manager.
Octorater : Movie Predictor on Trident
Optima : Multi Objective Optimization algorithms framework

EXPERIENCE

FACEBOOK | Software Engineering Intern
May 2015 – August 2015 | Menlo Park, CA
- Worked on query parsing and big data management across regions for facebook infrastructure data.
- Created a thrift based API to help data migrate efficiently across datacenters.

CROWDCHAT | Software Engineer
October 2013 – June 2014 | Hyderabad, India
- Developed crowdchat.net, a hash-tag based chat platform. It was built using the NodeJS Redis stack. Bootstrap, jQuery and client jade were used to develop the user interface.
- Worked on platform.crowdchat.net, a data analytics platform that helps you connect with people and subscribe to their activities on twitter. The application was built on the Java MySQL stack and successfully scaled to hold more than 250 GB of analyzed data. Full text search was provided using Apache Solr.

PAYODA TECHNOLOGIES | Software Development Engineer
June 2012 – September 2013 | Coimbatore, India
- Created a REST based module to register a device into AppViewX, which is a software load balancer.
- Developed an aggregation module on mongoDB using map-reduce to aggregate statistics periodically.
- Designed and developed a topological view to display hierarchy of an application using javascript.

RESEARCH

REAL WORLD ARTIFICIAL INTELLIGENCE FOR SOFTWARE ENGINEERING guided by Dr. Tim Menzies
Oct 2014 – Present | Raleigh, NC
- Studying trends in software engineering conferences using topic modeling.
- Software Effort Estimation using machine learning algorithms on industrial software projects. Statistical analysis on ranking effort estimators using parametric and non parametric statistical tests.
- Optimizing requirements engineering models on i* frameworks using multi objective optimization techniques.

NASA JET PROPULSION LABORATORY
Jan 2015 – May 2015
- Software Quality Prediction for their space programs.
- Published in NASA Cost Symposium 2015.

PUBLICATIONS

IST-Sub	Trends in Topics at SE Conferences: (1993-2016).
ICSE-2017	Trends in Topics at SE Conferences: Preliminary Version (1993-2013).
IST-2016	Negative Results for Software Effort Estimation.
AAAI-2016	Improving and Expanding NASA Software Cost Estimation Methods
NASA-2015	NASA Software Cost Estimation Model: An Analogy Based Estimation Method