



# George Mathew

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## EDUCATION

### NORTH CAROLINA STATE

PHD IN COMPUTER SCIENCE

Expected May 2019 | Raleigh, NC

### MS IN COMPUTER SCIENCE

Aug 2014 - May 2016 | Raleigh, NC

Current. GPA: 3.93 / 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
- Agent Based Modelling
- Image Processing
- Speech Recognition using SVM

## SKILLS

### PROGRAMMING

Experienced:

Java • JavaScript • HTML • Matlab  
MySQL • Python • MongoDB • CSS

Semi-Pro:

C++ • R • Redis • Clojure •  $\text{\LaTeX}$

Familiar:

PHP • Android • Shell • 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

Submitted

Sep 2016

Mar 2016

June 2015

April 2012

Trends in Topics at SE Conferences (1993-2013).

Negative Results for Software Effort Estimation.

Improving and Expanding NASA Software Cost Estimation Methods

NASA Software Cost Estimation Model: An Analogy Based Estimation Method

Digital Spyghmomanometer