

Kevin Alex Mathews

PERSONAL DATA

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EDUCATION

M.S. 2017 Department of Computer Science and Engineering
Indian Institute of Technology Madras, Chennai, India
CGPA: 9.0/10.0
Thesis: Extracting Ontological Knowledge from Textual Descriptions
through Grammar-based Transformations (advisor, Dr. P Sreenivasa Kumar)
B. Tech. 2011 Computer Science and Engineering
College of Engineering Chengannur, CUSAT, Kerala, India
Percentage: 72.6%

EMPLOYMENT

- **Teaching Assistant**, Indian Institute of Technology Tirupati, Tirupati, India, AUGUST 2017 - NOVEMBER 2017
- **Teaching Assistant**, Indian Institute of Technology Madras, Chennai, India, JULY 2014 - JULY 2017
- **Teaching Assistant**, NPTEL, JULY 2015 - NOVEMBER 2015
- **Teaching Assistant**, NPTEL, JULY 2016 - NOVEMBER 2016
- **Software Engineering Analyst**, Accenture Services and Private Limited, Mumbai, India, JUNE 2011 - NOVEMBER 2013

TALKS AND SEMINARS

- **Extracting Ontological Knowledge from Textual Descriptions through Grammar-based Transformations** SEPTEMBER 2017
Technical Presentation IIT Madras
- **FACES: Diversity-Aware Summarization using Incremental Hierarchical Conceptual Clustering** OCTOBER 2015
Technical Presentation IIT Madras
- **A 3-layer Dynamic CAPTCHA Implementation** AUGUST 2010
Technical Presentation College of Engineering Chengannur
CAPTCHA mechanism has been introduced as a type of challenge-response test used in computing to ensure that the response is not generated by a computer.

PROJECTS

- **SpellCheck** JULY 2015 - DECEMBER 2015
Course Project, Natural Language Processing IIT Madras
SpellCheck checks the spelling of English words, phrases and sentences using bigram and trigram word frequencies. Using edit distance metric, suitable suggestions for incorrect words are given.
- **Sudoku-Solver** JANUARY 2015 - MAY 2015
Course Project, Knowledge Representation and Reasoning IIT Madras
Sudoku-Solver is a rule-based system which attempts to solve 9x9 Sudoku puzzles.
- **File Sharing in Mobile Peer-to-Peer Systems** JULY 2010 - MAY 2011
Major Project College of Engineering Chengannur
We developed an application that allows mobile phone users to come together for the purpose of file sharing. The system is built with two key aspects in mind: a wireless ad-hoc network and a peer-to-peer network.
- **Fractal Image Compression** JANUARY 2010 - MAY 2010
Minor Project College of Engineering Chengannur
Fractal compression is based on the fact that parts of an image often resemble other parts of the same image. Fractal algorithms convert these parts into mathematical data called “fractal codes” which can, in turn, be used to recreate the encoded image.

COURSE WORK

- **Key Courses** JULY 2014-NOV 2015
Core and electives IIT Madras
Theory and Application of Ontologies Natural Language Processing
Knowledge Representation and Reasoning Artificial Intelligence
Mathematical Concepts of Computer Science Computer Architecture
Advanced Algorithms and Data Structures Planning and Constraint Satisfaction
- **Labs** JULY 2014-NOV 2015
Core IIT Madras
Advanced Programming Lab

TECHNICAL SKILLS

- **Languages:** Java, C, C++, Python, Haskell, Prolog
- **Semantic Web Technologies:** OWL, RDF/S, SPARQL, XPath, XQuery, XML

EXTRA & CO - CURRICULAR ACTIVITIES

- Half Marathon - 21.1Kms, TWCM 2016, CRHM 2016, TWCM 2015, Best Time: 02:06:20 Hrs
- Elementary French Fluency, [Duolingo](#), October 2015
- Grade 3 Piano, Trinity College London, February 2010
- ‘Programming Using C++’, NIIT Limited, September 2005

DECLARATION

I hereby declare that all the information given above is true to the best of my knowledge as on September 22, 2017.