

# Kevin Alex Mathews

## PERSONAL DATA

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## EDUCATION

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Ph.D., 2018 -  
[Heidelberg Institute for Theoretical Studies \(HITS\)](#), Heidelberg, Germany  
Advisor: [Prof. Dr. Michael Strube](#)  
M.S., 2014 - 2017  
[Department of Computer Science and Engineering](#)  
[Indian Institute of Technology Madras](#), Chennai, India  
Advisor: [Prof. Dr. P Sreenivasa Kumar](#)  
Thesis: Extracting Ontological Knowledge from Textual Concept Descriptions  
CGPA: 8.56/10.0  
B. Tech., 2007 - 2011  
[Computer Science and Engineering](#)  
[College of Engineering Chengannur \(CUSAT\)](#), Kerala, India  
Percentage: 72.6%

## EMPLOYMENT

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- **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

## PUBLICATIONS

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- [Extracting Ontological Knowledge from Textual Descriptions through Grammar-based Transformation](#) DECEMBER 2017  
*K-CAP 2017, Austin, TX, USA*
- [Extracting Ontological Knowledge from Textual Descriptions](#) SEPTEMBER 2017  
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## TALKS AND SEMINARS

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- **Extracting Ontological Knowledge from Textual Descriptions through Grammar-based Transformations**  
*Technical Presentation* SEPTEMBER 2017  
IIT Madras
- **FACES: Diversity-Aware Summarization using Incremental Hierarchical Conceptual Clustering**  
*Technical Presentation* OCTOBER 2015  
IIT Madras
- **A 3-layer Dynamic CAPTCHA Implementation**  
*Technical Presentation* AUGUST 2010  
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

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- **SpellCheck**  
*Course Project, Natural Language Processing* JULY 2015 - DECEMBER 2015  
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.
- **File Sharing in Mobile Peer-to-Peer Systems**  
*Major Project* JULY 2010 - MAY 2011  
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**  
*Minor Project* JANUARY 2010 - MAY 2010  
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.

## TECHNICAL SKILLS

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

## EXTRA & CO-CURRICULAR ACTIVITIES

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- 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

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I hereby declare that all the information given above is true to the best of my knowledge as on January 26, 2018.