

# Ranjith Kumar Shanmuga Visvanathan

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## Education

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<b>Columbia University, New York, NY</b> <i>Master of Science, Computer Science (Software Systems Track)</i> <b>Key Coursework:</b> Algorithms, Micro Service apps & APIs, Advanced Database Systems, Advanced Software Engineering	Dec 2016 (Expected)
<b>National Institute of Technology, Tiruchirappalli, India</b> <i>Bachelor of Technology, Electrical and Electronics Engineering</i> <b>Key Coursework:</b> Data Structures & Algorithms, Object Oriented Programming, Operating Systems	May 2013

## Experience

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<b>Columbia University, New York, US</b> <i>Graduate Research Assistant, Tow Center For Digital Journalism</i> <ul style="list-style-type: none"><li>Developing a web-based crowd-sourced document transcription platform for Journalists and public</li></ul>	Dec 2015 - Ongoing
<b>Oracle, Hyderabad, India</b> <i>Application Engineer, PPM Tech Team, Fusion Projects</i> <ul style="list-style-type: none"><li>Devised solutions that meet functional specifications for Enterprise business software</li><li>Developed many productivity improvement tools like Social Bookmarking, Merge Analytics, LogTroopers etc.</li></ul>	May 2013 - Jun 2015
<b>Indian Institute of Technology, Madras, India</b> <i>Summer Research Intern, Department of Electrical Engineering</i> <ul style="list-style-type: none"><li>Developed a Virtual Laboratory Environment for conducting precise Electrical Experiments using ActionScript &amp; Flash</li><li>Contains complex experiments (10 experiments) with multiple controls features and real time variation with parameters</li></ul>	May 2012 - Jul 2012

## Selected Projects

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### Cloud Based Log Analyser

- Cloud based Log management to real-time stream and visualise logs using NodeJs and ELK stack
- Handled about 50+ Users and around 150+ GB of log data with high performance

### Student-Course Management System

- Developed this management system in micro-service architecture
- Implemented various concepts like z-axis scaling, data partition, API gateway, Ref-Integrity between micro services etc.

### Advanced Database Projects

- Association Rule Mining** - Implemented optimised A-Priori algorithm to extract association rules from big-datasets
- Web DB Classification** - Developed a program for classification of Hidden-Web Databases
- Query Expansion** - Implemented an IR system that exploits explicit relevance feedback to improve search results

### Content Management System (for Mad Street Den, Chennai, India)

- Built a web application for content management of a Fashion Social Network app
- Developed a CMS which can scrap fashion blogs and allows modification of images and text

### Bazinga : Social Bookmarking

- Developed a link search tool with various search capabilities to find and share anything easier
- Served 150+ users and handled more than 5000 searches

### Log Troopers

- Analyse code quality and rectify them automatically. Gives stats on code quality.

### UI Share - Cross-platform Input sharing utility

- Developed an application to share keyboard and mouse across multiple computers (cross-platform)

## Technical Skills

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Python, Javascript, C++, Java, Node.js(Express), Django, Angular, HTML, Bootstrap, CSS, jQuery, AWS, Heroku, OpenShift, Bluemix

## Achievements & Activities

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- Winner of Oracle Fusion Out-of-the-box Hackathon 2015, in Redwood Shores, CA in 2015
  - Top 15 in IBM Bluemix & Watson Hackathon, with a participation of more than 1400 teams