Rahul S. Prasad

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EDUCATION

- **University of Florida** — Gainesville, FL
  Master of Science in Computer Science; GPA: 3.5/4.0 — *Aug 2016 – May 2018*
  Relevant Courses: Algorithms, Data Structures, Programming Language Principles, Distributed Systems

- **Vellore Institute of Technology** — Vellore, India
  Bachelor of Technology in Computer Science and Engineering; GPA: 8.7/10.0 — *July 2012 – May 2016*
  Relevant Courses: Computer Networks, Database Management, Operating Systems

PROGRAMMING SKILLS

- **Languages**: Java, C, C++, JavaScript, HTML5/CSS, Ruby on Rails

- **Frameworks**: Spring MVC, Tomcat, Angular 2/4, Node, Elixir, PHP, Gurobi, Git

EXPERIENCE

- **Center for Development and Advanced Computing** — Mumbai, India
  Software Dev Intern — *Dec 2014 - Jan 2015*
    - **Spring MVC**: User Interface and Login Module deployment for a Disaster Management Relief initiative. Creating JSP and J2EE web pages on an Apache Tomcat framework

- **Reliance ADA Group** — Mumbai, India
  Trainee — *Jun 2014 - July 2014*
    - **ERP**: Inventory management and SAP ERP module training

PROJECTS

- **Gator Grader**: MEAN stack implementation of a student teacher feedback system. Features include creating a review system on both the student and teacher side. Primary focus on front end in TypeScript(Angular 2).

- **Gossip and Push-Sum Protocol**: Erlang(Elixir) implementation of a peer to peer network which establishes the accuracy and effectiveness of a random message when propagated through a network. This was tested separately on different topologies of network.

- **Parser and Code Generator**: Practical parser and code generator. Java Eclipse working for the lexical, semantic and syntactical analysis of 10-15 different commands, followed by ASM bytecode manipulation for Intermediate Code Generation as well as code optimization.

- **Bitcoin Hasher**: Elixir experimentation of creating randomly hashed values for the desired number of leading zeroes, similar to a bitcoin hashing procedure. The hashing was observed on a concurrent peer to peer network, with the master server delegating the task to its slave peers

- **Gesture Recognition System**: Interface designed for studying hand signals by capture static gestures and interpreting their meaning using MATLAB. The interface separates the foreground from the background. The area of concern is then extrapolated into grayscale. Pending feature extraction and smoothing, the resulting image is then compared with a database of the tested known hand signs to accurately give the result.

- **Huffman Tree Encoding and Decoding**: Creation of custom data structures which included binary heap, pairing heap and 4-way optimized heap. Usage of a small data set to determine the lowest average time taken to encode for all the three data structures, with the lowest subsequently chosen to implement encoding and it's corresponding decoding for a larger dataset.

- **Dynamic Workflow Scheduling**: Developed a variant of existing workflow allocation algorithm by using knapsack to dynamically assign virtual machines for performing cloud services.

EXTRA CURRICULAR

- **Online Courses**: Certification from Coursera, Udemy and Internshala   **Hackathons**: Participation in multiple hackathons and creating side projects in Python, Java Swing and JS