Hemanth Devarapalli

Email : hemanth.devarapalli@outlook.com
Mobile : +1-765-588-7577
320 Brown St., Apt. 408, West Lafayette, IN 47906

Education

- **Purdue University *(3.52 GPA)*** — West Lafayette, IN
  Master of Science in Computer and Information Technology — *Dec. 2018*
  Deep Learning, Artificial Intelligence, Natural Language Technologies, Data Mining
  IoT, Interactive Computer Graphics, Game and VR Dev
- **Jawaharlal Nehru Technological University *(3.7 GPA)*** — Hyderabad, India
  Bachelors in Electronics and Communication Engineering — *May 2013*

Skills

.Net/C# | Java | Python - *pytorch, numpy, tensorflow* | Ruby - *Rails* | Golang | JS - *React + Redux, Nodejs* | Lua - *Torch*

Work Experience

- **Purdue University** — West Lafayette, IN
  Graduate Assistant for the Center for Career Opportunities (CCO) — *Aug 2016 - Present*
  - **Programming**: Rewrote the CCO's website from scratch using .Net MVC5 and Entity Framework. Manage the bi-weekly release schedule, on *dev-qa-production* environments.
  - **Management & Leadership**: Oversaw the migration of data, deployment of new applications. Managing and mentoring Undergrad students working at CCO.
- **Pay My Rent/SplitX (Startup)** — Chennai/Bangalore, India
  Chief Technology Officer & Co-founder — *Aug 2015 - Mar 2016*
  - **Programming**: Primary Backend developer for the startup. Wrote the REST service for the Web and Mobile clients using Ruby on Rails.
  - **Management & Leadership**: Handled the entire Technology aspect for the startup (architecture, tech stack choice, server maintenance). Involved with hiring interns and engineers along with managing them.
- **Automatic Data Processing** — Hyderabad, India
  Developer — *Jul 2013 - Jun 2015*
  - **Rewrites**: Migrated 5 applications from legacy ASP to ASP.Net 4.0.
  - **.Net MVC 5**: Created a MVC4 Mobile POC Web App for the HR Management Application. Created Server Dashboard for SIEBEL Servers involving MVC4, WCF and Windows Services.
  - **Linux and Nodejs**: Integration of Jive's Collaboration Software into ADP's Backend using NodeJS.

Master's Thesis (drafting the final copy)

- **Forced Attention for Image Captioning** : Image guided attention while Captioning Images. The user is able to specify objects in the image which are attended to while captioning. This is done by modifying soft attention
  - Extracting attention maps for the target object, and using it with it to the soft attention mechanism.
  - The subsequent decoder network uses the modified attention mechanism in generating the captions.
  - New architecture improves performance upto 3% on CIDer for certain objects.

Select Projects

- **Text generation - Deep Learning based and Graph based**: Auto-generation of text using the Amazon Reviews dataset by - pure graph based approach with Neo4J and Deep learning approach using LSTMs.
  - *Cypher queries* to generate the next word, and thereby a whole sentence given a seed.
  - Generating sentences using a Sequence to Sequence (Seq2Seq) network with attention and beam search.
- **Chatbot with Tensorflow NMT**: Discord bot built using the Neural Machine Translation network, which learns from the chat transcripts.

Honors and Awards

- **Amazon Startup Weekend**: Runners up, built AI bot for Customer Support *2015*
- **Microsoft Imagine Cup**: Runners up, Indian national finals *2013*
- **IBM The Great Mind Challenge**: 5th place, Indian national finals *2011*