Vaibhav **Yenamandra**

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Education

University of Florida *Gainesville, Florida, U.S.A.*

M.S. Computer Science *Aug 2016 - Dec 2017(Est)*

- Cumulative GPA: 3.47 / 4.00
- *Relevant Coursework*: Programming Languages, Analysis of Algorithms, Pattern Recognition, Machine Learning, Data Mining

Birla Instiute of Technology and Science, Pilani *Pilani, Rajasthan, India*

B.E.(Hons) Electrical and Electronics Engineering *Mar 2010 - PRESENT*

- *Coursework*: Analog and Digital VLSI Design, Microelectronic Circuits, Communication Systems

Experience

University of Florida *Gainesville, Florida, USA*

Summer Research, Parallel Computing, CUDA *May 2017 - Sep 2017*

- Responsible for GPU accelerating contour detection code
- Optimized I/O and inter-process communication in MPI to reduce disk access and ensure that the MPI topology is utilized effectively
- Achieved a speedup factor of almost 200, by reducing run time from 65 min to 20 sec

Capgemini India Pvt. Ltd. *Mumbai, Maharashtra, India*

Consultant *Jun 2014 - Jul 2016*

- Acted as liaison between business, development, and QA stakeholders to ensure service level agreements were met
- Acted as primary point of contact for a part of the project's software stack
- Automated 6 of 8 offshore reports leading to total time savings upwards of 3 hours daily

Projects

Distributed Cryptocurrency Miner *Coursework*

Distributed Systems, Elixir, Erlang *Sep 2017 - Present*

Used Elixir to implement a distributed cryptocurrency miner that was capable of fully utilizing the host CPU and can join an existing network of miners to receive work from an external master. The miner is able to utilize 88% of available CPU cores to sustain 65k green threads evaluating 1.8 million hashes per second on a laptop.

Statistics Library *Personal Project*

Statistics, Ruby, C, Random Number Generation *Jun 2016 - Present*

Created a Ruby C extension implementing statistical primitives for the Ruby language, providing functions not available in the language. Currently under development.

Image Processing Language *Coursework*

Compiler Construction, Java, JVM *Jan 2017 - Apr 2017*

Implemented a compiler for a programming language providing image processing primitives, such as convolutions and blurs. The Java Virtual Machine was taken as the target for code generation.

Technical Skills

Programming Languages Python, C++, Java, C, Ruby, Elixir
Technologies Keras, CUDA, MPI, OpenCV, Linux, CMake
Web Technologies Ruby on Rails, Sinatra, HTML, JavaScript, CSS

Positions of Responsibility

2017 **Project Leader**, Course Planner, UF Open Source Club *University of Florida*
2016 **Maintainer**, Distribution Repository, SciRuby *SciRuby*