Vaibhav Yenamandra

\((352) 888-0796

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theyenaman.me

EDUCATION

Master of Science, Computer Science

University of Florida (CGPA: 3.47/4)

Aug 2016 – Dec 2017 (Est.)

Gainesville, FL, USA

Coursework: Programming Languages, Algorithm Analysis, Advanced Data Structures, Machine Learning, Data Mining

Bachelor of Engineering, Electrical and Electronics Engineering

Aug 2010 - May 2014

Birla Institute of Technology and Science - Pilani (CGPA: 6.68/10)

Pilani, India

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

TECHNICAL SKILLS

Programming Languages

Python, C++, Java, Ruby, Elixir

Software & Tools

MPI, CMake, CUDA, OpenCV, Linux, I₽TEX

Web Technologies Ruby on Rails, Sinatra

WORK EXPERIENCE

Consultant, Business Analyst

Cappemini India Pvt. Ltd.

Jun 2014 - Jul 2016

Mumbai, India

- Liaisoned 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

Summer Research - Automatic Terrain Identification

May 2017 - Sep 2017

Big Data, Parallel Processing, CUDA, MPI

- Responsible for GPU accelerating boundary detection code using CUDA
- Achieved speedup of almost 200 by reducing run time from 65 min to 20 sec
- Optimized I/O, inter process communication to scale the existing framework from the initial 1000 × 1000 pixel to 100,000 × 100,000 pixel satellite imagery

Distributed Cryptocurrency Miner

Sep 2017 – Present

Distributed Systems, Elixir, Erlang

- Implemented a distributed cryptocurrency miner in Elixir that used an actor model of concurrency to distibute work among networked workers
- Utilized 88-95% of available CPU cores to sustain 65k green threads evaluating 1.8 million hashes per second on a mid-range laptop.

Rubygem - PCG Random

Sep 2017 - Present

C, Ruby, Random Number Generation

- Published a Ruby C extension providing the PCG family of random number generators
- The C extension outperforms in speed, Ruby2.1's Random class for generating Big-Integers, otherwise matching it

Statistics Library

Jun 2016 - Present

Statistics, Random Number Generation, C, Ruby

• Published a Ruby library implementing statistical primitives for the Ruby language, providing functions not currently available in the language

EXTRACURRICULAR

Project Leader, Course Planner, UF Open Source Club **Maintainer**, *distribution* repository, *SciRuby* project

Feb 2017 - May 2017 May 2016 - Present