

VAIBHAV YENAMANDRA

✉ yvvaibhav@gmail.com ☎ (352) 888-0796 🌐 vaibhav-y 📄 theyenaman 🌐 theyenaman.me

EDUCATION

Master of Science, Computer Science **Aug 2016 – Dec 2017 (Est.)**
University of Florida (CGPA: 3.47/4) Gainesville, FL, USA
Coursework: Programming Languages, Algorithm Analysis, 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, L ^A T _E X
Web Technologies	Ruby on Rails, Sinatra, HTML, CSS, Javascript

WORK EXPERIENCE

Consultant, Business Analyst **Jun 2014 – Jul 2016**
Capgemini India Pvt. Ltd. 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 from 65 min to 20 sec
- Optimized I/O, inter process communication to scale the existing framework from the initial 1000×1000 pixel to $100,000 \times 100,000$ 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 distribute 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 matches and outperforms Ruby2.1's Random method 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 **Feb 2017 – May 2017**
Maintainer, *distribution* repository, *SciRuby* project **May 2016 – Present**