Rohit Varkey Thankachan

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EDUCATION

Georgia Institute of Technology
MASTERS IN COMPUTER SCIENCE
Expected May 2018 | Atlanta, GA

National Institute of Technology Karnataka
BACHELORS IN COMPUTER ENGINEERING
May 2016 | GPA: 8.4/10.0 | Surathkal, India

EXPERIENCE

Julia Summer of Code | OPEN SOURCE CONTRIBUTOR
June 2015 – Aug 2015 | Remote, Kochi, India
- One of 9 students chosen worldwide as part of the JSoC program, sponsored by the Moore Foundation and MIT.
- Created a Julia package,Compose3D.jl for 3D declarative graphics.
- Implemented custom web components for three.js using Google's Polymer library.
- Using the three.js custom web components, created ThreeJS.jl to create 3D graphics for the web directly from Julia.
- Developed applications to render surf and mesh plots interactively based on ThreeJS.jl.
- https://github.com/rohitvarkey/ThreeJS.jl
- https://github.com/rohitvarkey/Compose3D.jl

RapidValue Solutions | SOFTWARE INTERN
May 2014 – June 2014 | Kochi, India
- Worked on iBeacon technology.
- Created a Proof Of Concept application to demonstrate applications of iBeacon Technology in retail.
- The PoC was further developed into a full fledged product.

SKILLS

Programming: Python • C • UNIX shell • C++ • JavaScript • Julia • LATEX
Web Development: Django • REST APIs • Nginx •PostgreSQL •HTML • CSS • Polymer •Meteor •Node.js •Bower •Bootstrap3

PRESENTATIONS

JuliaCon 2016 | MIT, CAMBRIDGE, MA
ThreeJS.jl: Interactive 3D Graphics in the Browser using Julia
JuliaCon India 2015 | BANGALORE, INDIA
Interactive 3D Visualizations in Julia
JuliaCon 2015 | MIT, CAMBRIDGE, MA (OVER VIDEO)
Compose3D.jl

PROJECTS

Smriti | A PORTAL FOR COLLEGE MEMORIES
- Wrote scripts to parse Google form data, create users with random passwords and send out emails to 900 students.
- Developed a web portal for testimonials to be shared using Django.
- Generated PDFs of profiles of each student to provide personalized hard copies for every student.

Healthizen | SYNERGY FOR A PRISTINE BENGALURU
- Developed a web application to crowdsource health and sanitary issue reports in Bangalore in association with the Karnataka State Government.
- Implemented the backend in Django with a REST API.
- Ran database migrations on the production server successfully.
- http://healthizen.org/

Phosphene | A PYTHON MUSIC PROCESSING LIBRARY FOR HAND MADE DEVICES
- Added support for realtime music processing.
- Implemented the reactive paradigm, providing users with a natural way to work with music signals.
- Interfaced with several electronic devices to manipulate them according to the music using serial communication.
- https://github.com/rohitvarkey/phosphene

TJNite | COLORS ON PHONES WITH THE BEAT
- Developed an application to sync colors on the crowds phones in tune with the beat of the music being played.
- Maintained websockets connections to push updates to mobile browsers.
- https://github.com/rohitvarkey/TJNite

PUBLICATIONS

[1] Pranav Thulasiram Bhat , **Rohit Varkey Thankachan** , and K. Chandrasekaran. "Sharding distributed social databases using social network analysis." Social Network Analysis and Mining 5.1 (2015): 1-11.

LEADERSHIP

- **President** and **Code Special Interest Group Head** | Institution of Engineers NITK Chapter, 2015-2016
- **Joint Convenor** | Technites, Engineer NITK 2015