

## Sricharan Chiruvolu

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### EXPERIENCE

#### **Research Intern**

Jan 2016 - May 2016

*Runnr, Bengaluru, India.*

- Worked with the technical team of a technology-based logistics service provider, present across India.
- Developed navigation systems to improve last-mile shipping efficiency.

#### **Contract(student) Developer**

Summer 2015

*Google, Summer of Code.*

- Worked with copyleft games to provide lighting and shadow rendering models for pysoy module.
- Generated a lighting system, added support for point, directional, spot and ambient lights; Implemented an optimized shadow mapping mechanism (CSM); Added option to toggle shadows based on GPU system used to render.

### EDUCATION

#### **Bachelor of Technology**, Computer Science and Engineering

- Amrita School of Engineering, Bengaluru, India.
- Graduation Year: 2016.
- **Cumulative GPA: 8.6 in 10.00.**
- **Relevant coursework:** Data Structures and Algorithms; Operating Systems; Computer Graphics; Automata theory; Computer Networks; Databases; Software Engineering; Bioinformatics; Data mining and Data Warehousing;

*Class 12*, Physics, Chemistry and Math; Graduation: 2012; Percentage: 91.6%

*Class 10*, Graduation: 2010; CGPA: 9.60 in 10.00.

### TECHNICAL SKILLS

- Data structures and Algorithms; Databases; Computer Graphics;
- C++; Ruby; Java; Python; Shell Script (bash); JS; C; HTML; CSS; Genie/ Vala;
- STL; Rails; Django; Git; Mercurial; OpenGL / GLSL; LaTeX; MySQL; SQLite; Android;

### ACHIEVEMENTS

- Accepted for **Google Summer of Code**. Mentored for Google Code-In. Worked as a contract developer for Google Inc.
- Honorable Mention (Team) - **ACM ICPC Asia Amritapuri Regionals 15**.
- Executive member/ office bearer - **Forum for Aspiring Computer Engineers (FACE)** - 2014-15.
- Finalist (team) - InCTF (Indias largest student CTF) 2015.
- Executive member/ office bearer - **GNU/ Linux User Group**, Bangalore Chapter - 2013-15.
- Participated at various hackathons. Special mentioned at sequoia::hack15 and angelhack15.
- Contributed to various open-source organizations including Mozilla, Copyleft Games (pysoy, libsoy modules), Codrspace, Quora-backup and learn-x-in-y-minutes.

### NOTABLE PROJECTS

- Most of the projects are open-sourced at: <http://github.com/raincrash>.
- **Distributed GA for Pharmacogenomic applications (2015)**. A bioinformatics research project on parallel Genetic Algorithms implemented on GPGPUs for pharmaco-genomics on drug and tissue data.

- **Light modelling and shadow maps (2015)**. Generated a lighting system, added support for point, directional, spot and ambient lights; Implemented an optimized shadow mapping mechanism (CSM); Added option to toggle shadows based on GPU system used to render.
- **EyeTrakr (2015)**. Eye tracking using EyeTribe for heatmap overlay generation to present advertisement analytics for webpages.
- **Raybox (2014)** An image synthesis system based on ray-tracing which includes reflections, refractions, soft shadows and depth of field.
- **Classbox (2014)**. A complete productivity suite for schools and colleges to interact effectively. Features include an interactive drawing board, chat rooms, dedicated forums, quiz generation and analytics, push notifications e.t.c.

## MAGAZINE PUBLICATIONS

- Are available at <http://opensourceforu.eftyimes.com/author/sricharan-chiruvolu/>
- *Open-Source Licensing Guide*, Open Source for You, Nov. 2015.
- *Getting Started with Dart*, Open Source for You, Oct. 2015.
- *How students can contribute to FOSS*, Open Source for You, Aug. 2015.
- *Generating Graphics with OpenGL*, Open Source for You, July. 2015.