

Sricharan Chiruvolu

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Education

Amrita School of Engineering (B.Tech)

Bengaluru, KA

Fall 2012 - May 2016

Computer Science and Engineering

Graduation: May 2016

G.P.A. 8.7

- **Graduated with First class/ Distinction.** Based on academic and all round performance.
- **Undergraduate Coursework:** Data Structures and Algorithms; Operating Systems; Computer Graphics; Automata theory; Computer Networks; Databases; Software Engineering; Data mining and Data Warehousing;

NRI Academy - Hyderabad (Class 12: 91.6%)

Fall 2010-May 2012

Kendriya Vidyalaya - Hyderabad (Class 10: 9.60/ 10.00)

Fall 2010-May 2012

Technical Experience

Runnr, Bangalore, India.

- **Software Engineer** (July 2016 - till date). Working with the customer application team. Developing the food delivery application for Indian customers.
- **Research Intern** (Jan 2016 - June 2016). Worked with the B2B demand and B2B supply teams. Developed navigation systems to improve last-mile shipping efficiency.

Google, Summer of Code.

- **Contract (student) Developer** (April 2015 - Aug 2015). 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.

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.
- **FOSS Contributions.** Contributed to various open-source organizations including, Copyleft Games (pysoy, libsoy modules), Codrspace, Quora-backup and learn-x-in-y-minutes.

Achievements

- Accepted for **Google Summer of Code**. Mentored students at 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** (India's largest student CTF) 2015.
- Executive member/ office bearer - **GNU/ Linux User Group**, Bangalore Chapter - 2013-15.

- Participated at various hackathons. Special mentioned at sequoia::hack'15 and angelhack'15.

Magazine Publications

Are available at <http://opensourceforu.ifytimes.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.

Technical Skills

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