Luv Agarwal

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About Me

- Quantum Cryptography - Researcher at IIIT Hyderabad working in Quantum Secret Sharing protocols
- Machine Learning - Have good mathematical foundation and implementation experience
- Web game developer
- Web developer
- I love automating things

Experience

Web Development

2015 **Software Development Intern**, *Connaizen*, Hyderabad.
Worked in designing the front end analytics dashboard and integrating them with back end.

2014 **Analytics System**, *Prof. Y. Raghu Reddy*.
Built an analytics platform for an existing website which tracks the users and displays them to different merchants in interactive fashion using different APIs

Game Development

2014 **FruitNinja**, *self project*.
A web clone for a famous android game named FruitNinja.
Game can be played *here*.
For technical information visit *here*.

2015 **OpenGL game Carrom**, *Prof. Anoop Namboodiri*.
It is a Carrom game built in OpenGL.
Code can be browsed *here*.

Machine Learning and Automation

2016 **Natural Language Conversational Engine**, *Prof. Vasudeva Varma*.
It's a DialogEngine designed to understand approximately English questions related to E-commerce and respond the user on basis of that.
Video and other information is available *here*.

2015 **Music Recommendation System**, *Prof. Avinash Sharma*.
A music recommendation system built using multiple collaborative filtering techniques.
Source code is available *here*.

2015 **Ubiquitous Hunt**, *self project*.
A linux utility which eliminates the need to pass complete file paths (which can be really painful specially for commands like cd) and instead just pass file names or sub file names by learning from the users behaviours and other linux commands.
Code and other information is available *here*.

Quantum Cryptography

2015–2016 **Researcher**, *Quantum Cryptography*, IIIT Hyderabad.
Working with Dr. Indranil Chakrabarty in Secret Sharing and distribution protocols

Others

2014–2016 **Open Source Contributer**, *Mozilla, SymPy, Green Navigation*, Hyderabad.
Details of contributions can be found at my Mozilla profile, SymPy profile and Greennav profile - 1 and 2.

2015 **CShell**, *Prof. Suresh Purini*.
A shell built in C. Code is available *here*.

Skill Specifics

Languages	C, C++, Java(basic)
Scripting Languages	Python, Bash, Elixir (Erlang)(basic)
Scientific Platforms	Numpy, SciPy, SymPy, Scikit Learn, Tensorflow, Gensim, Matlab
Web Technologies	PHP, HTML5, Javascript, jQuery, CSS, Polymer, Django, Flask
Platforms	Linux, Windows
Others	OpenGL, Android(basic), Git, Mercurial, MySQL, PostgreSQL

Education

2013–2018 **B-tech in Computer Science + MS in Computational Natural Sciences**, *IIIT Hyderabad*.

Achievements, Extra Curricular Activities

- Teaching Volunteer at Ashakiran (`http://ashakiran.iiit.ac.in/`)
- Ranked 8666 among ~500000 students in IIT-JEE, India's one of the most prestigious exam
- Scored 247/360 in prestigious AIEEE exam (among top 0.5%)