

# Luv Agarwal

OBH 360, IIIT Hyderabad

Hyderabad 500032

Telangana India

☎ +91 8143125149

✉ [luvagarwal.q@gmail.com](mailto:luvagarwal.q@gmail.com)

🌐 <https://in.linkedin.com/in/luvagarwal>

## 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 that 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*.  
Code can be browsed *here*.
- 2016 **Connect4 Game in PixiJS**, *self project*.  
Connect-4 game written in ES6 built using PIXI.js with NPM Webpack build.  
Game can be played *here*.  
Code can be browsed *here*.

### Machine Learning and Automation

- 2016 **Natural Language Conversational Engine**, *Prof. Vasudeva Varma*.  
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 for smart command execution. It eliminates the need for passing full file paths in shell commands and allows you to pass just file names or even incomplete file names  
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 Contributor**, *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](#).

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## Skill Specifics

Languages C, C++

Scripting Python, Bash, Elixir(Erlang)

Languages

Scientific Numpy, SciPy, SymPy, Scikit Learn, Tensorflow, Gensim, Matlab

Platforms

Web PHP, HTML5, Javascript, jQuery, React, Redux, CSS, Polymer, Django, Flask  
Technologies

Platforms Linux, Windows

Others OpenGL, Git, Mercurial, MySQL, PostgreSQL

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## Education

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

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## 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%)