

Luv Agarwal

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Professional Experience

2014 Sep-Nov **Software Developer**, *Imaginate*, Hyderabad.

- Contributed in building customers and analytics dashboard with interactive graphs.
- Implemented major components of backend using Django along with a user tracking system.
- Database splitting for better load handling and handled inter-database communication.

2015 July-Sep **Software Developer**, *Connaizen*, Remote.

- Responsible for building interactive analytics dashboard with charts, graphs and ajax powered reports.
- Extended existing REST API and integrated the calls with analytics dashboard.

2015-2016 **Open Source**.

Contributions over a span of >1 year in few respected organizations

- *Mozilla* - 10 patches submitted, 32 comments made, 3 bugs filed, 11 bugs poked.
- *GreenNav webapp, maps, api* - made 17 commits.
- *SymPy* - 3 patches submitted.

2015 Aug - . **Researcher**, *CSTAR, IIIT-Hyderabad*.

- Working on Retrieving and Routing Quantum Information in a Quantum Network using non-maximally entangled states.
- Analyzed patterns for state variation while traversing the network.
- Analyzed fidelity variation of secret as a function of swappings.

Projects

2016 **Fruit Ninja**.

Keywords: HTML5 game, ES6, PIXI.js, Webpack, OOP

It's a web clone for a famous Android game named Fruit Ninja.

- Multi-platform
- Code: ES6, modular approach, OOP, self-documenting.
- Implemented fairly complex animations.

2016 Feb-Apr **Dialog Engine**, Prof. Vasudeva Varma.

A bot designed to understand and respond to e-commerce products related enquiry questions.

- Responsible for building query parsing and query classification system
- Built a web scraper and contributed to query response engine
- Deployed quick website with back end in Flask

2015-2016 **Time Tracker**.

Keywords: Python, Bash, Linux run-levels, lock unlock routines

- It's a Linux shell based tracker which provides customizable hierarchical classifiers
- Provides timer applet and real-time notifications.
- Analytics along with Whatsapp based daily report forwarding system

2016 **Ubiquitous Hunt**.

A Linux shell utility which lets you pass incomplete paths in bash commands.

- Analyzed tens of error messages and implemented efficient regex to determine reason behind command failure.
- Implemented recursive command modify and re-run system until success.

Skills

Proficient Python, Javascript, Django, Linux, Git/Hg, PIXI.js, MySQL, C, C++

Intermediate Bash scripting, PHP, HTML5, CSS, Google Polymer, React, Redux, Flask, OpenGL, PostgreSQL, MongoDB, NumPy, Sklearn, Matlab

Education

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

Achievements, Extra Curricular Activities

- Teaching volunteer at *Ashakiran*
- Scored 247/360 in AIEEE, India's one of the most prestigious exam (Top < 0.5%)