Ratnadeep Debnath

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Summary

I am Free and Open Source contributor and evangelist. I am the creator and maintainer of Waartaa (https://waartaa.com), an open source communication and collaboration tool for humans. I usually make web apps using Python/Django, however, lately, I have been working a lot with MeteorJS, for building Waartaa, and Ansible for provisioning servers for Waartaa. When I am not working on Waartaa, I also contribute to The Fedora Project and Mozilla. I work at https://www.goibibo.com as a Senior Software Engineer. At work, I write intuitive, maintainable, scalable web apps using Python/Django. In my free time, I get my hands dirty with some devops stuffs, as well.

Goals

Use my skills to contribute back to the society.

Experience

Senior Software Engineer at Ibibo Group Pvt. Ltd., May 2014 - Present

Infrastructure plumbing

- Sentry integration
- Gitlab maintenance and upgrade
- creating and maintaining Vagrant boxes for various Goibibo products
- Write deployment scripts in Ansible and suggested migration from bash to Ansible for deployments
- Evaluated Eucalyptus cloud, Mesosphere, etc. for revamping the infrastructure at Goibibo.

Heading telephony and CRM tools development

- Building an intelligent IVR
- Creating and integrating tools to improve CRM workflow

Software Engineer at Ibibo Group Pvt. Ltd., February 2013 - April 2014

Web development in Goibibo flights

- Implemented selecting flight seats
- Created a framework to automate handling of updated flight/travel info from Amadeus Queues and notify users on the same.
- Built ticket change (cancellation, rescheduling) API to enable seamless ticket change from web and mobile platforms.

• Worked with improving and writing new parsers for Goibibo flights

Built application for Goibibo Go (https://www.goibibo.com/go)

Software Developer and QA at Transifex , September 2011 – January 2013

At Transifex, I develop new features, enhance existing ones and implement support for various i18n file formats. I also write tests to ensure that things run as they are expected to. User support, bug triaging and bug fixing are also part of my job. At Transifex, we innovate to take localization to the next level. Below are a few things(among many) that I have done so far at Transifex:

• Implement and enhance file format handlers.

• Implemented Glossary feature.

• Implemented *related tag cloud*.

• Implemented translation strings API.

• Implemented language management API.

• Implemented a super fast test suite.

• Fix and update tests.

• Bug-triagging & bug-fixing.

• Handle user queries and bug reports at support.transifex.com and over live chat at Transifex.

Summer Intern at Transifex , June 2011 - August 2011 (3 months)

It was an awesome experience to work as an Intern at Indifex. I got introduced to a plethora of new technologies all of a sudden. I went through a steep learning curve and finally it paid off. I contributed to Transifex, increased test coverage for Transifex, fixed bugs, added support for new i18n file fomats. I also worked on implementing new features for Transifex, like, Glossary, tag assignment, etc.

Interests

FOSS, Web development, Fedora, Scaling

Skills

Python, Django, MeteorJS, JavaScript, jQuery, Testing, CSS, HTML, AJAX, Linux

Projects

• Creator and maintainer of Waartaa, an open source communication and collaboration tool

• Upstream contribution to Fedora Infra

• Upstream contribution for Firefox

• Upstream contribution to Django

• Upstream contribution to Transifex

• Upstream contribution to Pontoon

• **django-pontoon-hook**

A hook for Django applications to use Pontoon for localization

• Upstream contribution to nose-progressive

- health-query: A crowdsourced health query service.

- pywebcrawler: A simple web crawler written in Python.

- **Bluetooth Relay Chat**

    Bluetooth Relay Chat is an application that enables to run a kind of IRC over bluetooth scatternet. This supports multihop, intra and inter piconet communication in a Bluetooth Scatternet.

- **wordGroupz**

    A vocabulary building app designed using Python and Gtk

- **WordCollections**

    A desktop tool for building glossary for localization

- **FedX**

    "FedX" is a tool for syncing, configuring Fedora offline repositories

- **Upstream contribution to Kettu**

    Kettu is a web UI for Transmission, A fast and easy BitTorrent client

- Upstream contribution to Askbot

Education

- **Bachelor of Technology**, Computer Science & Engineering from Dr. B. C. Roy Engineering College , 2007 – 2011 (DGPA/CGPA: 8.4)

- **AISSCE** from Gurukul Grammar Senior Secondary School, 2007 (Aggregate: 83.8%)

- **HSLCE** from Bongaigaon High School English Medium, 2004 (Aggregate: 87%)

Publications

Lossless secure transmission in Bluetooth scatternet, considering device mobility, IEEE

Summary

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In this paper, we propose an algorithm for lossless transmission of data in a Bluetooth
taking into consideration the mobility of the devices. For this we use the scatternet fo
route maintenance algorithms proposed in "Location aware route maintenance protocols for
Ad Hoc networks", which reconstructs optimal routes in a mobile Ad Hoc Bluetooth network
algorithm named Enhanced Mobility Aware Routing (EMOLAR) deals with secure data transmis
during route reconstruction proposed in Location aware route maintenance protocols for m
Hoc networks.
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Honors and Awards

- 2003: 4th rank in the All Assam Chemistry Olympiad (Std. X)

- 2002: 1st place from Lion's Club District 322 D in the International Peace Poster Contest

- 2011: Bluetooth Relay Chat got shortlisted for Innovative Student Projects Award by Indian National Academy of Engineering. This project was presented in the Committee Room, Indian National Science Academy (INSA), Bahadur Shah Zafar Marg, New Delhi-110 002 on August 26, 2011 (Friday)

As a speaker

- **Software Freedom Day**, Kolkata, 2009
- **Fedora Users and Developers Conference(FUDCON)**, Pune, 2011
- **Mukti, 2012** (NIT Durgapur's FOSS Tech. Fest), 2012
- **FUDCON, Kuala Lumpur**, 2012
- **Pycon India** 2012
- **Pycon India** 2013
- **Flock** 2014

Organizations

- Mozilla as a contributor.
- Fedora as a contributor.
- DGPLUG , as a local coordinator from December 2008 to 2011.
- Bhaktivedanta Academy for Culture and Education, Durgapur as a volunteer, preacher , October 2007 to 2011.

Training

- Bachelor of Technology, Computer Science & Engineering , Dr. B. C. Roy Engineering College (Affiliated to West Bengal University of Technology)
- DGPLUG summer training on GNU/Linux Platform and other Open Source technologies, 2008
- Red Hat summer internship on "wordGroupz", 2010

Test Scores

- GRE: 1128 (July 2011)
- GATE (IT & CSE) 2011: 95.6 percentile

References

- **Sankarshan Mukhopadhyay**, Engineering Manager at Red Hat, sankarshan.mukhopadhyay AT gmail DOT com
- **Kushal Das**, Fedora Cloud Engineer at Red Hat, kushaldas AT gmail DOT com
- **Dimitris Glezos**, CEO, Transifex, glezos AT transifex DOT com
- **Runa Bhattacharjee**, Language Engineering QA and Developer Outreach, runa.misc AT gmail DOT com