
Aboli Aradhye

Lead Software Engineer

+91-9922000602
aboli.a.aradhye@gmail.com
<https://github.com/aboliaa>
Pune, India (ready to relocate)

SUMMARY

- Almost **5 years** of experience of working in a **startup** (Python development)
 - A backend developer with some front-end development experience
 - **Single-handedly** worked on **end-to-end delivery** of multiple features (from requirements to deployment/support), worked as feature owner
 - Have hands-on experience with design and implementation of multiple products which follow the principles of Service Oriented Architecture (**SOA**), **scale-out** architecture, **stateless** implementation, **REST**, etc.
 - Working as acting **lead** where I am responsible for mentoring junior teammates
 - Worked on important customer **escalations** and deployments
 - Active in **hiring** process (taking technical interviews)
-

TECHNICAL SKILLS

| | |
|------------------------------|---|
| Programming Languages | Python, C/C++, Javascript, Mako |
| Web Technologies | HTML5, jQuery, WebPy, Plotly, REST, SOAP, nginx |
| Backend Technologies | MongoDB, Amazon s3, MySQL, Qt |

EXPERIENCE (6 years)

Lead Software Engineer, Vaultize

Pune, India — October 2012 - till date

Document Conversion Server and Online Document Viewer

- Implemented distributed persistent queue using MongoDB for the scalable implementation of document conversion server.
- Worked around the quirks of Open Office's document converter to support conversion of 20+ file formats to pdf.
- Implemented online document viewer using FlowPaper which enforces granular access control. [Link to blog.](#)
- Implemented multi-line watermarks in document viewer to include the document access/tracking information.
- Proposed a steganographic solution to detect source of data leak using document viewer. (**Patent Pending**).
- Implemented Watermark download of Office, PDF and image files, with password protection

- **Skills:** Python, Distributed systems, MongoDB, REST, nginx, webPy, HTML5

Two factor authentication

- Designed admin and user workflows for Vaultize's two factor authentication.
- Implemented support for Email/SMS based OTP and RADIUS. [Link to blog.](#)
- Implemented SMS server using Plivo APIs.
- **Skills:** Python, Plivo, SMTP

Active directory integration

- Implemented a generic framework to integrate AD / LDAP like directory services with vaultize for mass deployment, which also enabled vaultize to make use of user management and authentication services of AD / LDAP
- **Skills:** Python, Active directory

Authentication backend framework

- Implemented authentication backend to support multiple types of user authentications like: Vaultize credentials, Active Directory authentication, Single Sign On (SSO)

Link sharing - Features and enhancements

Design and implementation of

- Sharing of point in time view of data. [Link to blog.](#)
- Asynchronous workflow for link sharing to improve user experience.
- Get sharable link which enforces access control.
- Request files - to request and collect files from collaborators.
- **Skills:** Python, Distributed systems, MongoDB

Proxy support for vDRM client

- Provided support of network proxy to Vaultize's Digital Rights Management product
- Support for various proxy implementations like HTTP/S proxy, SOCKS proxy, NTLM
- **Skills:** NTLM

User-specific reports

- Improved Vaultize's reporting module to produce a report for individual user

Linux client

- Implemented build infrastructure for DEB and RPM clients
 - Testing of clients under multiple distributions like Ubuntu, RedHat, CentOS, Fedora
 - **Skills:** Debian dpkg, rpmbuild, shell scripting, pyinstaller
-

Junior Research Fellow, IIT Bombay

Mumbai, India — July 2011 - July 2012

- Designed an efficient and scalable version of classical callstring method in Inter-procedural Data Flow Analysis.
 - Worked on performance measurement for SpecCPU2006 benchmark for a paper "*Lazy Pointer Analysis*" by Uday P. Khedker, Alan Mycroft, Prashant Singh Rawat.
-

EDUCATION

- Pune University - Bachelor of Engineering in Computer Engineering, 2011

CERTIFICATIONS:

- Front-End Web UI Frameworks and Tools: Bootstrap 4 ([Coursera Link](#))
-