

# MITESH SHAH

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## Work

### Mahabali Innovative Technologies

*Intern as a full stack developer* - Developed a production ready Python web application using flask.

- Deployed it on a linux VPS behind an nginx server using the uwsgi protocol.
- Programmed capabilities to send and receive email customized to the client requirements with web-hooks installed in places to make sure the emails are getting delivered
- Server was capable of handling a load of over 1000 concurrent requests every minute.

## Education

B.E in **Computer Engineering** (2013-2017)

- Thadomal Shahani Engineering College, Mumbai
- GPA (avg. till Sem VI) - **8.0/10**

## Projects

**ghPublish**: A complete command line blogging solution using GitHub Pages. It allows the users to start publishing posts on their jekyll and github powered blogs instantly. Supports authentication by creating api access tokens and storing them locally for multiple users. Posts written in markdown can be rendered to html and previewed locally. It uses the GitHub API and hence does not need git and jekyll installed on the client system.

**dystic** - A static site generator using dynamic principles. Instead of using dynamic code and accessing a server side database, it treats the filesystem itself as a database creating a complete static website. Supports selective building, and hierarchical WYSIWYG model of structuring content. Also supports complete markdown rendering and html templating.

**sakura** - A drop in css framework which works out of the box on your entire site without having to change anything in your existing HTML files. It works directly on inbuilt HTML tags and is completely responsive for mobile usage. Supports duo-tone color customization. A forkable theme using the sass-processor is also provided.

**Ninshu**: A compiler/interpreter for a self made programming language which borrows its syntax from C and Python. Lexing, tokenization and parsing is done using PLY, python ports of lex/yacc. The parsed code is then converted into an abstract syntax tree using the visitor dispatching method after which it is run over and interpreted.

## More Projects

**Visual A-Star JS** - Graphical view of A\* search using javascript and html5 canvas.

**wallPy** - Command line wallpaper changer fetching data from custom multireddits using praw api. Filters out NSFW, out-of-ratio, low resolution images and also avoids duplicates by hashing image content.

**Stab** - Minimal static site generator which runs amazingly fast.

**BoxWiki** - a portable personal wiki/flat-file note taking solution made using BottlePy

**WoxWiki** - A note taking personal wiki solution to capture your life. Made using both flask and Django.

**WikiSearcher** - Dynamically fetch results for search query while taking user input. It uses the wikipedia public API and a minimal javascript framework MithrilJS.

**ChatNinja** - JavaFX application for multi-user chatting.

**VisaApplication**: Android application to process and manage visa applications of employees.

**phpBlogNinja** - Complete blog from scratch with user authentication and registration implementing CRUD for posts and comments using the LAMP stack.

## Extra Curricular and Achievements

**Tech Blog:** I maintain a blog about programming and software at <http://computableverse.com>

**Programming:** I recreate certain softwares for personal use and **open source** it on **github**.

**StackOverflow:** Ranked among the **Top 12% contributors Globally** to StackOverflow this year.

**FinanceGYM:** Won a strategic competition in a simulated environment about financial investments and portfolio planning sponsored by **L&T Mutual Funds** in association with the learning curve academy.

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