# Shreyash **Agarwal**

SOFTWARE ENGINEER

68 Bondel Road, 4th Floor, Kolkata-700029, India

☐ (+91) 77-9524-2260 | ✉ email@shreyashagarwal.in | ⌂ www.shreyashagarwal.in | ⬡ shreyashag | in shreyashag | Date of Birth - 23 October 1993

## Work Experience

### Minance Technologies
Bangalore, India

SENIOR SOFTWARE ENGINEER
November 2018 to current

- System architecture design and implementation for database, logic and API layers.
- Development of infrastructure for ETL of real-time financial market data into S3 in a reliable manner.
- Developed several protected ephemeral web dashboards for internal usage such as analysis.

Bangalore, India

SOFTWARE ENGINEER
April 2018 to October 2018

- Development and maintenance of internal and public R APIs built with Flask to run on server-less platforms such as AWS Lambda.
- DevOps for back-end infrastructure with VPS, crontab, containerisation on Google Cloud Platform, Amazon Web Services and DigitalOcean.
- Developed the backend infrastructure for the ERP system and contributed to front-end in in React.js.

Bangalore, India

JUNIOR SOFTWARE DEVELOPER
October 2017 to March 2018

- Web crawling and scraping and modelling structured and unstructured data.
- Contributed to existing system modules and refactoring legacy code in Python.
- Converted application logic to in-memory to drastically reduce compute time and server load.
- Developed desktop and web applications using Tkinter for internal use.

### Thappad (OPUS Media LLP)
Bangalore, India

INTERN - APPLICATION DEVELOPER
November 2015 to March 2016

- Developed Hybrid Web Apps using Ionic Framework and AngularJS 1.0.
- Learnt about MVC framework and the angular pattern.
- Worked on creating plugins with Cordova for user interaction.

### ASDA (Ansul's Dance Academy)
Bangalore, India

INTERN - WEB DEVELOPER & ADMINISTRATOR
(September 2015 to January 2016)

- Developed responsive, mobile-ready website using Bootstrap, HTML5 and CSS3.
- Integration of jQuery plugins such as Slick and Magnific-Popup for functionality.
- Responsible for web administration and managing the server for the client (GoDaddy).

## Skills

| | |
|---|---|
| **Programming Languages** | Bash, Python, Javascript, Go, C/C++, LaTeX, HTML5, CSS3 |
| **Cloud Services** | Amazon Web Services- Lambda, S3, API Gateway, CloudWatch, EC2) |
| **Tools** | Mysql, Redis, Crontab, Git, Docker |
| **Frameworks** | Flask, Celery, Dramatiq, Zappa, React.js, Scrapy, Selenium, Pandas, OpenCV3 |
| **Languages** | English, Hindi |

## Education

### M.S.Ramaiah Institute of Technology
Bangalore, India

B.E. IN INFORMATION SCIENCE AND ENGINEERING
Aug 2012 - Aug 2017

- CGPA : 7.89/10 ( Graduated with Honours )

### Delhi Public School, Ruby Park
Kolkata, India

A.I.S.S.C.E (CBSE)
2012

- Computer Science, English, Physics, Chemistry, Mathematics
- Percentage : 87.4%

### Delhi Public School, Ruby Park
Kolkata, India

A.I.S.S.E (CBSE)
2010

- English, Mathematics, Computer Science, Science, Hindi, Social Studies
- 9.60(CGPA) = 92%

# Projects

**IPAWAC - Intelligent Personal Assistant with Alternative Communication**

*M.S. Ramaiah Institute of Technology, Bengaluru, India*

Core Member

*2016-2017*

- Intelligent Personal Assistant running on macOS using Python3 that incorporates alternative modes of communication such as text input via terminal and also speech via microphone.
- Also incorporates vision for the assistant using OpenCV3 and has capability to learn and then recognise faces by building models after capturing and training data (using Fisher models).
- Incorporates offline wake-word detection using Snowboy engine, including capability to put the assistant to sleep and then wake up
- Keeps modular nature of the modules and includes Gmail, Google Contacts integration with OAuth2 authorisation mechanism.