

# Shreyash Agarwal

SOFTWARE ENGINEER

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## 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 with ORM tools such as SQLAlchemy and Alembic for migrations.

Bangalore, India

SOFTWARE ENGINEER

April 2018 to October 2018

- Ported code and oversaw migration of client-facing API's from server to serverless platform.
- DevOps for back-end infrastructure with VPS, crontab, containerisation on Google Cloud Platform, Amazon Web Services and DigitalOcean.
- Developed the back-end infrastructure and API for the internal ERP system and contributed to front-end in React.js.

Bangalore, India

JUNIOR SOFTWARE DEVELOPER

October 2017 to March 2018

- Developed desktop applications using Tkinter for internal use.
- Web crawling and scraping and modelling structured and unstructured data.
- Converted application logic to in-memory to drastically reduce compute time and server load.
- Modularised and standardised existing codebase to increase productivity.

### 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.
- Created plugins with Cordova for user interaction.

### Ansul's Dance Academy

Bangalore, India

INTERN - WEB DEVELOPER AND ADMINISTRATOR

November 2015 to March 2016

- Developer mobile-friendly website as per specifications using HTML5, CSS3 with jQuery plugins such as Slick and Magnific.
- Responsible for web administration and deployment.

## 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, SQLAlchemy, Alembic

### Languages

English, Hindi

## 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.

## 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**

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

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

*Kolkata, India*

2012

**Delhi Public School, Ruby Park**

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

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

*Kolkata, India*

2010