Shreyash **Agarwal**

SOFTWARE ENGINEER

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

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

Work Experience

Circles.Life
Bangalore, India

SOFTWARE ENGINEER — *August 2019 - February 2020*

- Developed modular crawler architecture and system for data ingestion from different sources. The system unified and consolidated data to a consistent schema for downstream processes. Used Python3 and MongoDB.
- Contributed to existing back-end micro-services written in Go and internal CMS dashboard in React.js.

Minance Technologies
Bangalore, India

SENIOR SOFTWARE ENGINEER — *November 2018 to July 2019*

- System architecture design and implementation for database, logic and API layers.
- Designed and developed 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 CMS 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.
- 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 and created plugins with Cordova for user interaction

Ansul's Dance Academy
Bangalore, India

INTERN - WEB DEVELOPER AND ADMINISTRATOR — *November 2015 to March 2016*

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

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   CGPA : 9.60

Skills

Programming Languages	Python, Go, C/C++, Bash, HTML5, CSS3, Javascript
Cloud Services	Amazon Web Services- Lambda, S3, API Gateway, CloudWatch, EC2)
Tools	Mysql, Redis, MongoDB, Crontab, Git, Docker
Frameworks	Flask, Celery, Zappa, 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.

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