

Shreyash Agarwal

SOFTWARE ENGINEER

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Work Experience

Circles.Life

Bangalore, India

SOFTWARE ENGINEER

August 2019 - Current

- Developing 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.
- Contributing 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.

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.

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.

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.