

Amit Kumar

SOFTWARE ENGINEER

London, United Kingdom

☎ (+44) 7904-296-365 | ✉ dtu.amit@gmail.com | 🌐 iamit.in | 📱 aktech

Experience

Turner & Townsend

London, United Kingdom

SOFTWARE ENGINEER PYTHON (CONTRACT)

Jan 2019 - Present

- Software Engineer in the Backend team
- Building API's and data pipelines using Flask and Airflow on Azure Platform
- Code review and mentoring.

Cambridge Medical Robotics

Cambridge, United Kingdom

SOFTWARE ENGINEER PYTHON (CONTRACT)

June 2018 - Dec 2018

- Worked on the System Testing Infrastructure of the Surgical Robot.
- Reporting, diagnosing and fixing software issues in the Robot
- Responsible for mentoring and code review.

The Telegraph

London, United Kingdom

SOFTWARE ENGINEER (PYTHON), DATA PLATFORM TEAM

February 2018 - May 2018

- Created numerous ETL pipelines.
- Improved Deployment Infrastructure with Jenkins.
- Improved Standardization of Python Projects.
- Upgraded ETL pipeline creation to from Python2 to Python 3
- Review Code to provide feedback for improving design and code quality
- Automated creation of new pipelines on GCP (Google Cloud Platform) via Jenkins to facilitate one-click infrastructure to help developers focus on code rather than infra.

Powervault

London, United Kingdom

SOFTWARE ENGINEER (PYTHON), BACKEND TEAM

Oct. 2017 - Feb. 2018

- Software Engineer in the backend Team, worked on the IoT infrastructure.
- Created setup for Continuous Integration on gitlab.
- Dockerized Projects for Continuous Delivery.
- Integrated external services to use/control Powervault devices.
- Improved their Client facing dashboard and API, written in Flask and Django

Zomato

Gurgaon, India

SOFTWARE DEVELOPMENT ENGINEER (PYTHON, PHP)

Oct. 2016 - Oct. 2017

- Software Engineer in the ML/Reviews Team.
- Updated the User Credibility to incorporate two way movement of credibility score based on user activities, using a rule based system.
- Re-wrote the ratings/reviews spam detection rule based system.
- Created a Cuisine Predictor, which predicts the cuisine of a restaurant based on the dishes it serves.
- Created Various internal dashboards for automated creation of collections (collection of restaurants) using Review Highlights.
- Wrote the data pipeline of the Image Quality prediction.
- Revamped the Review Moderation system in a team of two.
- Improved Testing culture for Python as well as PHP Projects.
- Created the testing infrastructure for the main web application by writing a wrapper around PHPUnit and setup travis.

HackerEarth

Bangalore, India

SOFTWARE ENGINEERING INTERN, R & D TEAM

June. 2016 - Sep. 2016

- Facilitated the collection of standard error logs
- Wrote an Error Log Parser for C, C++, Python and Java.
- Wrote a Checker for comparing user output with expected output to give appropriate suggestion for frequently occurring cases.

Google Summer of Code 2015

Remote

STUDENT DEVELOPER UNDER PYTHON SOFTWARE FOUNDATION (SYMPY)

May. 2015 - Aug. 2015

- Improved Mathematical robustness of new solvers module.
- Implemented Complex Sets: Representing infinite solutions in the argand plane
- Linear System solver, Differential Calculus Methods.

Google Summer of Code 2016, 2017, 2018, 2019

Remote

MENTOR FOR SYMPY, SYMENGINE (OPEN SOURCE PROJECTS)

Summer 2016, 2017, 2018, 2019

- Mentored students for the development of solvers in SymPy and SymEngine.

Technical Skills

Languages

PYTHON (PROFICIENT), PHP, SQL (INTERMEDIATE), C, C++, JAVASCRIPT, HTML/CSS, BASH (FAMILIAR)

Tools, Framework & Methodologies

FLASK, DJANGO, DOCKER, REST API, SWAGGER, REDIS, GIT, TDD, VIM

Operating System

MAC OS, LINUX (UBUNTU)

Education

Delhi Technological University

New Delhi, India

BACHELOR OF TECHNOLOGY IN MATHEMATICS AND COMPUTING ENGINEERING

Mar. 2012 - 2016

Presentations Delivered

2018	Swiss Python Summit , Let's Talk About GIL (v3)	Raperswill, Swiss
2018	PyData London , Data Pipelining with Luigi	London, UK
2017	PyParis, France , Python in Maths Class (Lightning Talks)	Paris, France
2017	PyCon, CZ , Let's Talk About GIL!	Prague, CZ
2016	PyCon UK , Introducing Metaclasses	Cardiff, UK
2016	PyCon Asia Pacific , Demystifying Python's Method Resolution Order	Seoul, Korea
2016	PyGotham , Demystifying Python's Method Resolution Order	NewYork, US
2016	SciPy , SymPy Tutorial	Austin, US
2015	PyCon India , SymPy Tutorial	Bangalore, India

Honors & Awards

INTERNATIONAL

2016	Exceptional Talent in Technology (Endorsement) , by Tech City UK (Government of UK)	Tier 1 Visa 2017
2016	Financial Aid Award , Presentation on SymPy	SciPy 2016
2015	SemiFinal , HackerRank WorldCup coding competition (Team size: 2)	Remote

DOMESTIC

2012	Top 1% of 1.3 million , AIEEE (Engineering Entrance Exam) 2012	India
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Open Source Contributions

Packages/Tools

SYMPY (CORE DEVELOPER), SYMENGINE, CPYTHON, PANDAS-GBP, FACEBOOK-PROPHET, PYDSA

Publications

PeerJ Computer Science, 2017. PeerJ.

Citations: 51

SYMPY: SYMBOLIC COMPUTING IN PYTHON

2017

Program Committees

2018	Co-Organizer , PyLondinium	<i>London</i>
2016 - Pr.	Co-Organizer , Python Delhi User Group	<i>Delhi</i>
2018	Co-organizer , PyData London User Group	<i>London</i>
2016	Co-organizer , PyCon India	<i>Delhi</i>