

HIMANSHU MISHRA

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I care a great deal about Open Source Software, writing simple and beautiful code, architecture design and documentation.

WORK EXPERIENCE

Software Engineer [Mercari US, Tokyo](#)

October 2019 - now

Backend Team

Primary maintainer of User Verification features (Email, Government ID, KYC) in the app. Improved stability of API which affected 10% of the users by fixing infrastructure problems (API design issues, Race condition, gRPC connection handling). Launched new features in internal Admin Tool, used for compliance, moderation and customer support.

Mostly used skills: Golang, Javascript, PHP, React Native, Kubernetes and Docker.

Software Engineering Intern [Twitter HQ, San Francisco](#)

Summer 2018

Open Source Team, led by Remy DeCausemaker

Created Open Source Metrics reporting system for all the Twitter OSS projects - opensource.twitter.com/metrics Worked on automating Open Source review process for internal projects. Built the back-end of new opensource.twitter.com. Investigated Bi-directional code flow of Twitter Open Source projects and the internal monorepo. Skills: Python, Javascript, Continuous Integration, VCS

Software Engineering Intern [Elanic, Bangalore](#)

Summer 2017

React-Native, React, Node.js

Created the chat interface for Elanic iOS app from scratch, with messages and dynamic offers on screen. Rolled out for 160K users. Added new features and wrote powerful abstractions for the backend server serving a total of 800K users.

Google Summer of Code 2016 [Stingray, Python Software Foundation](#)

Summer 2016

Python library of Time Series methods Mentor: [Daniela Huppenkothen](#)

Wrote core Time Series analysis methods for astronomical X-Ray data obtained from accreting star systems. Created the base classes of the library, packaged it and published over pypi. Project talk selected in SciPy 2017 conference. | [GSoC Report](#)

Google Summer of Code 2015 [NetworkX, Python Software Foundation](#)

Summer 2015

Implementing Add-on Extension System Mentor: [Yingchong Situ](#), [Aric Hagberg](#)

Wrote a library for Graph partitioning, an extension of NetworkX which is a Python library for Graph Theory with over 13 million downloads per month. Also, designed the add-on system for NetworkX extensions. | [GSoC Proposal](#)

PROJECTS

I have been advocating for Open Source Software since 2014. Most of my projects are hosted on my GitHub profile.

github.com/OrkoHunter

PEP 8 Speaks

A GitHub integration to automatically review Python code style on Pull Requests. The project, **financially sponsored by Python Software Foundation**, has a community of **over 5000 Python organizations** ↗ and over 20,000 user interactions. Currently used by many popular projects/orgs including **pandas**, **Adobe**, **openSUSE**, **PyTorch**, **NetworkX**, **statsmodels**, **Spyder IDE**, **scikit-image**, **scikit-learn-contrib**, **astropy**, **sunpy** - [GitHub](#)

Other projects

- Keep : A CLI tool for storing and using code snippets. Serves 300+ active users. — [GitHub](#)
- VectorEntry : A mobile keyboard for visually impaired people (Masters thesis project). — [GitHub](#)
- Ping Me : A cross-platform CLI for personalized reminders, integrated with Google Calendar — [GitHub](#)
- plot2table : Extract plots from research papers and produce tables of data points. — [GitHub](#)
- Smart Ways : Using Neural Networks to suggest possible one way routes in Indian traffic — [GitHub](#)
- GitHub Audio : Listen to music generated by global events on GitHub (Contributions) — [GitHub](#)
- Morse Talk : A Python library written for Morse Code — [GitHub](#)

SKILLS

- Languages: Python, JavaScript, Golang, Java, C/C++, PHP
- Platform: Kubernetes, Google Cloud, AWS, Docker, Unix, Android, React Native
- Development: React, React Native, Node.js, electronjs, Flask, Django, Unix utilities, SQL databases

CONFERENCES

- [Talk : Stingray - Time series methods for Astronomical Data](#) [↗](#) SciPy 2017, Austin TX
- [Lightning Talk : PEP8Speaks - GitHub App for Python code style](#) [↗](#) SciPy 2017, Austin TX
- [Lightning talk: Why Typography matters](#) [↗](#) 2018, IIT Kharagpur
- Tutorial : Complex network analysis using NetworkX - Graph Theory in Python PyCon IN 2017, Delhi
- Talk and Tutorial : NetworkX - A Python library for Graph Theory 2016, University of Pune
- Tutorial : NetworkX and NetworkX-Metis SciPy IN 2015, Mumbai

VOLUNTEER EXPERIENCE

Google Summer of Code 2017 Mentor

I was a GSoC mentor in summer 2017, helping two GSoC students continue the work on my GSoC 2016 project: Stingray - A Python library for astronomical X-rays research.

[Kharagpur Open Source Society](#)

In my freshmen year of college, I co-created a student group to discuss and promote Open Source among all the students of IIT Kharagpur. We organized workshops, hands-on sessions (Git, Python, Android, Linux etc.), organized seminars for Open Source programs like Google Summer of Code and increased the student participation 4 times in three years.

My proudest win was to organize an Open Source summit and manage the speakers, talks, workshops and their logistics. It was attended by 1000+ students. Our team had 15 members. [Photos](#).

EDUCATION

Indian Institute of Technology (IIT) Kharagpur, India

2014 – 2019

Bachelors and Masters (Dual Degree) in Mathematics and Computer Science