

Himanshu Shekhar

Final year grad with 1 year experience

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Education

2015–2020 **Bachelors & Masters of Technology in Information Technology.**
Indian Institute of Information Technology, Allahabad
CGPA: 8.90 (9 semesters)

Experience

- May 2019 - **Software Intern**, Sumo Logic.
Present Sumo Logic is a cloud-based machine data analytics platform. I was a part of data-collection team handling ingestion of over 10 petabytes of machine data every month.
- Learned about the architecture of large-scale distributed systems over AWS, data-pipelines working in harmony passing messages over RPCs.
 - Contributed to the beta-release of archive intelligence which helps customers ingest data at a fraction of present cost.
 - Contributed to the beta-release of observability for collection letting customers know the state of their configuration.
 - Been part of on-call rotations and handled production releases.
- March 2019 - **Co-Investigator**, Indian Space Research Organization (ISRO).
Present
- Developed a Voice Based Assistant to allow policymakers drive decisions based on geospatial data
 - Implemented a Django API over PostGIS, along with integrating an NLP parser for voice queries
- December 2018 **Backend Intern**, Atlan (formerly SocialCops).
Atlan is a home for data teams enabling teams to process and collaborate on data just like a Google Doc.
- Dockerized all (18) microservices of Collect - a mobile data-collection app
 - It eased local setup and on-premise deployments in single-step via docker-compose
 - Optimized older Dockerfiles for dependencies, bringing down build size and build time by 80%
- May–July 2018 **Backend Intern**, Atlan (formerly SocialCops).
2017
- Built Collect Toolbox - a Python SDK to abstract complex queries and ease day to day related chores
 - Built a performance reporting tool for the support team which sends an Excel report weekly on Slack
- Apr 2017–Apr 2018 **Software Development Coordinator**, Technical Society, IIIT-Allahabad.
- Organized workshops, talks and mentored students to get started with software development
 - Taught primarily about Linux, Git, REST API, authentication, etc.
 - Developed alumni portal for the institute to house profiles, contact information and organize events. The portal was used for first alumni meet in 2017

Projects

- Jan - May 2018 **Intent based Robot Grasping**, Python, Matplotlib, PyTorch, OpenCV.
- Paper published at IEEE International Advance Computing Conference 2018.
 - Preparatory work to recognize optimal rectangle for object grasping by a robotic arm
 - Created data-pipeline to optimize memory usage in PyTorch by lazy-loading training data
 - Created tool to label rectangles on training images using OpenCV based GUI
- March 2018 **Aerially**, NodeJS, Ethereum.
- Runner up at Hack In The North 3.0, IIIT-Allahabad
 - Built a smart-contract platform for airlines to transfer overbooked passengers to alternate flights
 - Used Ethereum's eventing mechanism to monitor events

Dec 2015 - **ProxyMan**, Bash.

- Present
- Developed a tool to configure system-wide proxy settings on Linux
 - Configures GNOME gsettings, bash, apt, dnf, git, npm, docker, Dropbox proxy settings
 - Appreciated by community with more than 300+ stars on GitHub and used widely at IIITA

Jan 2018 **Dexter**, Python, JavaScript, NLP.

- Winner at Hack36, annual hackathon of MNNIT-Allahabad.
- Voice controlled code-editor for the disabled
- Used Fuzzy logic based NLP parser to convert voice to Python/Javascript code using Chrome Speech Recognition API

Oct 2017 **Expedite**, Python, Django, MySQL, ReST API.

- Winner at IIIT-Hacks, 2017, IIIT-A's annual intra-university hackathon
- Bridging customer issues on social media to customer support
- Comments/Reviews on social page gets registered on company's CRM
- Machine learning based classifier classifies and assigns issues to respective support team

May 2016 - **21Lane**, Python, Qt5, FTP.

- Oct 2016
- Peer to peer, GUI based file sharing software written in Python, Qt5 and pyftplib
 - Used FTP to transfer file and data between machines
 - Implemented bulk file downloader by batching them using worker threads and a task-queue
 - Mimics bittorrent with a central hub acting as tracker

Technical skills

Data pipelines, ReSTful services, Benchmarking, Debugging

Confident Python, Golang, Java, Scala, JavaScript, C, Bash

Intermediate C++, Matlab/Octave

Tools Docker, SQL, MongoDB, Qt5, Django, Flask, Git, ROS

Platform Linux, AWS

Positions of responsibility

Mar 2018 - **Senator to the Student Welfare Council**, *IIIT-Allahabad*.

Feb 2019 Bridged students to welfare council to get their grievances addressed

April 2016 - **Member in Open Source Society**, *IIIT-Allahabad*.

March 2017 Organized workshops and mentored students to get started with open-source

Relevant courses taken

Distributed Systems

Artificial Intelligence

Artificial Life Simulation

Image Processing

Compiler Design

Computer Networks

Object-Oriented Programming

Linear Algebra

Data Structures and Algorithms

Operating Systems

Soft Computing

Data Mining

Computer Architecture

Database Management Systems

Optimization Techniques

Convex Optimization