Amit Kumar Singh

Fullstack Developer * DevOps

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Self-taught computer programmer. Currently Founder, Fullstack Developer & DevOps in start-up Devconsole. I have 2.5+ years of experience specializing in backend/infrastructure, web development and security. I love to share my programming knowledge with the students. A super nerd who loves Linux and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Work Experience

Founder, Fullstack Developer   Jan 2019 - Present

Feelin

V2.1.0 - V3.0.0

- Updated the complete UI/UX of the app using React Native, and other third-party libraries
- Updated the backend using Apollo, Graphql, Express
- Designed the product website using MERN stack
- Implemented Redis caching technique
- Updated MongoDB schema for the product
- Built and deployed overall service infrastructure utilizing Docker containers.

V1.0.0 - 2.1.0

- Developed the complete UI/UX of the product using React Native and other third party libraries
- Designed the product website using HTML, CSS, and other javascript libraries.
- Implemented RESTful API server using Expressjs and Nodejs
- Implemented API request validation using
- Implemented API caching technique to handle
- Implemented Flynn PaaS to manage product on
- Implemented Git for the project
- Designed advance schema for the complete product
- Built and deployed overall service infrastructure utilizing Docker container, Flynn PaaS(Opensource focusing on high-availability, fault tolerance, and auto-scaling

Open Source Contributor   Mar 2019 - May 2019

GirlScript Summer of Code

MEVN CLI: A CLI tool for getting started with the MEVN stack. It offers a super-simple boilerplate template and additional utilities for building a MEVN stack-based web app.

Education

MBA, IT & Systems   2019 - 2021

IMS, Ranchi University

- Selected for "Business English for Young Professional Workshop" conducted by U.S Embassy

BBA, Marketing   2015 - 2018

Marwari College, Ranchi University

AISSCE, Commerce   2013 - 2015

Central Academy, Bariatu

AISSE   2013

Army Public School, Ranchi

- Completed 2 years (2010-2012) in Army wing 3JH BN NCC Ranchi as Lance Corporal/ Corporal. Also cleared 'A' Certificate examination held in 2012 under the authority of Ministry of Defence, Government of India

Hackathons & Achievements

- 2020, **eLife Innovation Leader**, eLife
- 2019, **Intel Edge AI Scholar**, Udacity
- 3019, **Y Combinator Startup School**
- 2018, **OpenTechNights Winner**, FOSSASIA
- 2017, **Quality Assurance Contributor**, Mozilla
- 2017, **First**, Hackathon De Corps
- 2016, **Second**, UTKRAANTI'16 with Padarth'16 IIT Bombay
- 2016, **Assocaate Trainer**, App Development Training for Nepalese
- 2015, **Top 10**, App Hackathon (Gov. of Jharkhand)

Founder, Fullstack Developer   Jan 2018 - Nov 2018

Devconsole

- Developed the complete UI/UX of the product
- Designed the REST API server using Expressjs and Nodejs
- Implemented API request validation using
- Designed MongoDB schema for the complete product
- Built and deployed overall service infrastructure utilizing Docker container, Flynn PaaS

Research Intern   Jun 2018 - Jul 2018

LinuxWorld Informatics Pvt Ltd

- **SAAS(Software As A Service)** A one-click implementation was achieved which provided the clients Firefox browser and VLC media player software's on their systems from DOCKERS running on the cloud server.
- **STAAS(Storage As A Service)**
  - Block Storage - In Block storage we used ISCSI Protocol to provide clients with block storage available at the cloud to be used at the client system.
  - Object Storage - In Object storage, using NFS and SSHFS Protocol to provide user fixed storage overcloud.
- **CAAS(Container As A Service)** A one-click launch, starting, stopping and removing and providing the terminal of docker container was achieved.
- **PAAS(Platform As A Service)** A one-click launch of python platform was provided for clients where they can code as they wish.
- **Hadoop** A CGI based web portal was developed for a one-click setup of hdfs and map-reduce cluster depending on the requirements of the client per se, the size of the cluster required, and the number of processors required for the big data analysis.
- **Machine Learning** The web service for the client was secured by Face recognition using machine learning and also include parts of speech recognition using python modules. IMAGE PROCESSING constitutes a large portion of the security aspect of the service.
- **Ansible** The entire configuration requirement of the project was met by the creation of ANSIBLE playbooks for both the client and the cloud.
- **Dockers** For the safe and secure single client-based service production, most of the services were provided through dockers only

Skills

- **Front-End:** HTML5, CSS3, JS, JQuery, Bootstrap, AngularJS, ReactJS, React Native, Redux, SocketIO
- **Back-End:** NodeJS, GraphQL, Apollo, Python, PHP, SocketIO
- **Web Server:** Nginx, Apache
- Mobile App: React-Native, Android Studio, Ionic,
- **Desktop App:** NW.js
- **Database:** NoSql, MySQL
- **Web Framework:** MERN Stack, MEAN Stack, Django, Flask, CodeIgniter, LAMP
- **Programming Languages:** Python, JavaScript, PHP
- **Version Control Tools:** Git, Github, Bitbucket
- PaaS: CloudJiffy, Dokku, Flynn
- **DevOps:** Ansible, Splunk
- **Big Data:** Hadoop, Hive, Spark, Splunk
- **Data Analysis:** Numpy, Pandas, Matplotlib , Seaborn, Plottly
- **Others:** Web Security, OWASP TOP 10, Networking, Web Scrapping, Linux, Quality Assurance, Data Mining

Certifications

- 2019, **cloudyBoss accreditation cBX82 Technology**
- 2017, **Red Hat Certified System Administrator**
- 2017, **Red Hat Certified Specialist in Ansible Automation**
- 2016, **Intro to Python for Data Science**, DataCamp

Projects

Devconsole - An online student and startup platform

AI Monkey - AI based web browser which consult user based on their search query

MozCode Paste - This project aims to paste code, share code and get the code reviewed. This project was shortlisted for Mozilla Pulse

Air Notes - Notes app in which notes can be synced online

UC News Clone - A clone of UC News app which shows news from difrrent news website.

Django Twitter - Twitter clone using python and django web framework

Digital Marketing Intern   Jan 2018 - Feb 2018

Genesis Digisec

- Developed complete SEO and Google analytics for a wordpress website, also worked in UI/UX of the website
- Suggested online marketing strategy for the promotion of the website

Jr. Researcher   Feb 2017 - Aug 2017

Cyber Peace Foundation

- Worked in Indian Honeynet Project
- Invloved some website and web application related projects
- Developed windows and Linux software using NodeWebkit

Software Developer   Nov 2016 - Feb 2017

ResultsTrack Pvt. Ltd

- Involved in Data Visualization and Data Analysis projects, alon with some websites and web application projects
- Created an android app to collect survey in offline mode and automatically gets updated whenever the internet was connected

Intern   Aug 2016 - Nov 2016

Nathcorp Inc

- Involved in Data Visualization and Data Analysis projects and worked in dynamic graphs and maps using php and third party javascript library

Volunteer

Code Contributor

OpenGenus

- Code contribution for different algorithms in Cosmos. Suggested idea and worked on mockup of Cosmos Code Compiler (C3)

Code Contributor

PyCon India 2017

- Working with web development team for fixing the web related issues
- Volunteered for Machine Learning Fruitful and Fun using Orange talk

Code Contributor

PyConf Hyderabad 2017

- Working with web development team for code contribution to website and invloved in fixing web related issues in github

Club Leader

HackClub

- Responsible for building local community of developers in college and universities and organizing meet-ups

Mozillian

Mozilla

- Responsible for event organizing, meet-ups for community and create FOSS Awareness in colleges, schools and universities
- Quality Assurance contributor from Mozilla India team