

Nabarun Pal

Software Engineer | Open Source Contributor | Containers and Orchestration

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Summary

An experienced graduate from IIT Roorkee working as a Platform Engineer in the PaaS/SaaS industry with demonstrated skills in Python, Kubernetes, AWS, Terraform, Golang. Worked in varied domains since university days. Awarded fellowships and scholarships by organizations like NumFocus and Cloud Native Computing Foundation. Spoken about his experiences and work at conferences in India and abroad.

Education

2018	8.35/10, Bachelor of Technology Metallurgical and Materials Engineering with Minors in Computer Science and Engineering, Indian Institute of Technology, Roorkee
2014	89.0/100, AISSCE Central Board of Secondary Education, Lawrence and Mayo Public School, Kota
2012	10/10, AISSE Central Board of Secondary Education, Sri Krishna Mission School, Agartala

Work Experience

May 2018 Current	Platform Engineer, Rorodata Technologies, Bengaluru <ul style="list-style-type: none">Building the next generation demand planning system encompassing all aspects of a FMCG planners daily workEngineered the core compute component of Algoshelf an AI based enterprise planning systemDesigned and implemented HyronML a PaaS on top of Kubernetes allowing anyone to easily deploy their applications to KubernetesImplemented microservices to coordinate running scheduled jobs and on demand jobsMaintained the legacy code and microservices running our services and platformAuthored lambdapool - an open source framework for easily deploying algorithms to AWS LambdaPresented Lambdapool at AWS Community Day Bangalore 2019 <div>Python Git Docker Kubernetes Golang AWS GCP</div>
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Internships

June 2018 August 2018	John Hunter Matplotlib Summer Fellow, NumFocus <ul style="list-style-type: none">Selected amongst 2 students for the fellowship out of hundreds of applicants worldwideCo-authored mpl-altair an interfacing library to render Altair chart using Matplotlibmpl-altair aimed to provide an alternative paradigm of writing visualizations to Matplotlib usersThe project benefited the users by providing ability to render charts in various output formats <div>Python Matplotlib Altair Git</div>
May 2017 July 2017	Software Development Engineer, Rorodata Technologies, Hyderabad <ul style="list-style-type: none">Built an universal data science platform for enabling the data scientists to deploy and scale ML applicationsSystemized cloud based automatic data extraction and storage from IoT devices reducing development time by 80%Delivered microservices architecture for running, storing and logging scheduled jobs by usersCo-authored firefly - an open source function-as-a-service framework which is used in internal platform toolsPresented my internship projects at PyData Delhi 2017, PyCon India 2017 and FOSSASIA Summit 2018 <div>Python Git AWS Bootstrap Raspberry Pi</div>
May 2016 July 2016	Full Stack Engineer, Gurupriyam Innovations, Bengaluru <ul style="list-style-type: none">Innovated experiential products using Leap Motion Controller and various web APIs like Twitter Stream APIBuilt personalized software interface for a Smart Mirror module which provides relevant information to usersDesigned a productivity enhancement device to track employee sitting time and remind them of stroll breaksDeveloped IoT based Water Saving Automatic Irrigation System controller using 555 timer and ESP8266 <div>Python Twitter API NodeJS ESP8266</div>

Talks

- > **2019** | [AWS Community Day Bengaluru](#) | Making AWS Lambda simpler for data scientists
- > **2018** | [FOSSASIA Summit Singapore](#) | Building microservices with Firefly
- > **2017** | [PyCon India](#) | Building microservices with Firefly
- > **2017** | [PyData Delhi](#) | Building camera based intelligent applications

Skills

Programming Languages :	Python, Golang, C, JavaScript(ES5, ES6), HTML, CSS, SQL, LaTeX
Databases :	PostgreSQL, Google Cloud Datastore, Google Cloud BigQuery
Containerization/Orchestration :	Docker, containerd, Kubernetes
DevOps :	Gitlab CI, Github Actions, Google Cloud Build, Vault, Terraform, Ansible, Docker Compose
Web Services :	Amazon Web Services, Google Cloud Platform
Data Analytics/Visualization :	Pandas, Scikit-learn, Numpy, Matplotlib, lib-svm, Keras
Developer Tooling :	Git, Vim, GNU/Linux

Volunteer Experience

April 2019	Kubernetes Contributor, Cloud Native Computing Foundation
Current	<ul style="list-style-type: none">> Volunteer in various Special Interest Groups and Working Groups> Part of the Kubernetes 1.17 Release Team as an Enhancements Shadow (SIG Release)> Contributing to Kubernetes Python Client (SIG API Machinery)> Part of the Events team organizing Kubernetes Contributor Summit North America (SIG Contributor Experience)> Migrating CLI flags of kube-scheduler to ComponentConfig (WG Component Standard)> Managing Kubernetes Community Infrastructure (WG K8S Infra)

Achievements

- > Recipient of Cloud Native Computing Foundation Scholarship to attend KubeCon+CloudNativeCon North America 2019
- > Recipient of Cloud Native Computing Foundation Scholarship to attend KubeCon+CloudNativeCon Europe 2019
- > Awarded John Hunter Matplotlib Summer Fellowship by NumFocus 2018
- > 1st Position out of 30 colleges in Robosapiens, Cognizance 2017
- > Best Aesthetic Robot in ABU Robocon 2016 India Leg
- > 2nd Position out of 45 colleges in Robosapiens, Cognizance 2015
- > Awarded the distinction of Dedicated Proficiency Holder for distinguished social service in NSS for the year 2014-2015
- > Recipient of Merit-cum-Means Scholarship for 4 consecutive years for outstanding academic achievement 2014-2018

Featured Projects

October 2017	Soldier Support Systems Inter IIT Technical Meet 2018, IIT Madras
January 2018	<ul style="list-style-type: none">> Designed a localization system for real time position estimation of soldiers in a battlefield> Developed a Raspberry Pi based Heads Up Display for displaying the information collected from other users> Integrated Health Monitoring & Localization subsystems with Raspberry Pi based latch on device for each soldier> 4th position at 6th Inter IIT Tech Meet Madras 2018 out of 23 participating teams from other IIT's <div>Python PyQt ZigBee Raspberry Pi</div>
Aug 2016	Asobi : The Landing Disc Team Robocon IITR, IIT Roorkee
March 2017	<ul style="list-style-type: none">> Built Frisbee Throwing Robot with two throwing mechanisms solving the problem statement of ABU Robocon 2017> Spearheaded software systems for the whole robot including sensor units, computer vision and navigation modules> Delivered navigational algorithms for mechanum wheeled robots for precise odometry using Optical Flow Sensors> Designed Python and C++ libraries to get data from generic USB Joysticks and DualShock 3 controllers using any Linux based system or Arduino <div>Python C++ OpenCV Arduino Raspberry Pi</div>
Aug 2016	Swarm Robotics Models and Robotics Section, IIT Roorkee
March 2017	<ul style="list-style-type: none">> Delivered 4 microbots which could perform synchronous tasks like geometrical formations and coordinated motion> Designed system for communication of robot coordinates from localizer module to robots using client server model> Developed image processing algorithm for detection micro robots on the movement plane <div>Python OpenCV ESP8266</div>
January 2017	Indoor Localization Inter IIT Technical Meet 2017, IIT Kanpur
March 2017	<ul style="list-style-type: none">> Fabricated an Autonomous robot which can localize itself based on WiFi signals> Developed an algorithm to calculate robot movement parameters from WiFi Received Signal Strength> Gathered data using two Edimax WiFi modules through Unix commands running as root> 5th position at 5th Inter IIT Tech Meet Kanpur 2017 out of 18 participating teams from other IIT's <div>Python Raspberry Pi</div>