Dhruv Bhanushali

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Areas of interest

- Server-side infrastructure engineering and dev-ops
- Cross-platform and full-stack web and app development
- Software architecture, planning, design and documentation
- Technical/non-technical documentation, blogs and articles

Achievements



• Scored AIR 3,110 out of 1,50,000 in JEE Advanced 2015.

Indian Institute of Technology Roorkee

B. Tech.

iii 2015 - 2019

Engineering Physics

Internships

Education



Creative Commons

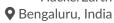


- Developed Vocabulary, a cohesive design system.
- Revamped the UI of CC Search, powered by Vocabulary.
- Initiated Vocabulary integration into other CC projects.
- Contributed features and patches to the CC Catalog API.

Infrastructure engineer

HackerEarth

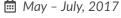
iii May - July, 2018



- Wrote the IaC for the entire production architecture.
- Wrote tooling to deploy the IaC in an alternate AWS AZ.
- Wrapped Boto3 in a Python + Django web-environment.
- Developed an EC2 instance launch and termination engine.
- Isolated staging and production in separate VPCs.
- Enabled deployment of new staging VPCs in one click.

Software developer

HackerEarth



Pagaluru, India

- Wrote a code-evaluation engine to evaluate Java projects.
- Wrote tooling to automatically build and execute projects.
- Wrapped Ant in an async message-based Python evaluator.
- Developed the scaffolding architecture using RabbitMQ.
- Added provider-agnostic database connectivity using JDBC.
- Installed security policies such as memory and I/O limits.

Positions of responsibility



Chief technology coordinator

IMG

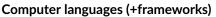


♀ IIT Roorkee

Information Management Group (IMG) is the student body that developed, manages and upgrades both the content management system, powering the IIT Roorkee website and Channel i, the official intranet portal.

- Pivoted IMG as a group from app to platform development.
- Replaced Channel i, and its suite of apps, with Omniport.
- Piloted a complete upgrade of the stack and technology.
- Mentored a team of over 50 developers and designers.
- Halved timelines by replacing the development paradigm.
- Containerised and isolated the development process.
- Developed a culture of open-sourcing projects at IMG.
- Set the institute record of 30 repos open-sourced in a day.
 Lead IMG to 10 and 13 GSoC selections in 2018 and 2019.
- Reinvigorated IMG's popular image, utilising hitherto untapped social platforms such as Medium and Instagram.

Skills



reStructuredText (+Sphinx), Python (+Django, Django REST Framework), Java (+JavaFX, Ant), JavaScript/Node.js (+Express, React, Angular, Vue, Vuex, Vue Router, Jest, Storybooks, Styleguidist), Kotlin (+Android), PHP, FORTRAN, LATEX, Bash, C++, Golang and, of course, HTML and CSS (+Stylus, Sass)

Computer software

Git, Docker (+Compose), Ansible, Puppet, UFW, Travis, Sentry, NGINX, httpd, Celery, RabbitMQ, SQL & NoSQL databases, iPython, Jupyter, NumPy, SymPy, MathWorks MATLAB, GIMP, Inkscape, Adobe Creative Cloud

Open source projects



Vocabulary

Design system

May 2019 - Present

Wue, Styleguidist, Storybook

Vocabulary is a cohesive design system to unite the web facing Creative Commons ©.

- Developed close to 40 components for the project.
- Wrote the documentation and styleguide for the library.
- Developed an interactive playground for the components.
- Deployed all these products to GitHub Pages.
- Identified easy issues to encourage beginner contributors.

Omniport backend

Campus portal platform

iii March 2018 – Present

📕 Django; React

Omniport is a platform for institutes to deploy their web portal (like Channel i by IMG for IIT-R), by and for the students.

- Planned it to be unopinionated to suit any institute's needs.
- Developed Omniport to be generic but customisable.
- Developed extension capability with plug-and-play apps.
- Developed latest features such HTTP/2 and WebSockets.
- Added OAuth2 provider functionality for 3rd-party auth.
- Laurahad as a mahila raspansiya programsiya wah ann
- Launched as a mobile responsive progressive web app.Composed the Django backend, all core apps and services.
- Integrated with the React frontend and deployed on Docker.

Omniport infrastructure

Container deployment

March 2018 - Present

■ Docker (+Compose); Bash

Omniport is a platform for institutes to deploy their web portal (like Channel i by IMG for IIT-R), by and for the students.

- Replaced old monolithic architecture with microservices.
- Containerised core and scaffolding services with Docker.
- Planned the infrastructure to be elastic and cloud native.
- Automated scaling, redundancy and reproducibility.
- Bash scripted image and container creation and tear-down.
- Deployed proofs-of-concept in dev and prod environments.

Other projects



Placement & Internship portal

Omniport application



Django; React

Placement & Internship portal digitises the entire placement process, including creating the official IIT Roorkee résumé, applying to companies and knowing the results.

- Added features to the app like test and interview calendar.
- Added the ability to submit a cover letter with application.
- Mentored developers of the revamped Omniport version.
- Mentored the developers of the Android companion app.