

Dhruv Bhanushali

Technical writer

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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.



Education

Indian Institute of Technology Roorkee  2015 – 2019
Bachelor of Technology (B. Tech.)  Engineering Physics



Internships

Software developer  April – September, 2019
Creative Commons  Google Summer of Code

- 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  May – July, 2018
HackerEarth  Bengaluru, India

- 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  May – July, 2017
HackerEarth  Bengaluru, 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  2016 – 2019
Information Management Group  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

Computer languages (+frameworks)

reStructuredText (+Sphinx), Python (+Django, Django REST Framework), Java (+Swing, JavaFX, Ant, Android), JavaScript/Node.js (+Vue, Vuex, Vue Router, Storybook, Styleguidist, Jest, React, Angular), Kotlin (+Android), CSS (+Stylus, Sass), PHP, FORTRAN, Bash, C++, Golang, HTML, Markdown *and, of course, L^AT_EX*

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

Vocabulary

 May 2019 – Present

Design system

 Vue, 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

 March 2018 – Present

Campus portal platform

 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.
- 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 documentation

 March 2018 – Present

Holistic documentation


 Sphinx

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

- Penned the philosophy and ideals of the project.
- Documented the architecture, frontend and backend.
- Wrote helpful tutorials, how-to guides and FAQ.
- Wrote in-depth reference material for functions and utils.
- Deployed an always up-to-date version on ReadTheDocs.
- Open-sourced and licensed docs under the GNU FDL.
- Documented the entire codebase using PyDoc and JSDoc.

Writings

Blogs

 Occasional, intermittent

Thoughts to words

 WordPress; Medium; Lektor

I sometimes write blog posts on various experiences from my life, both technical as well as non-technical.

- “Life As A Member of IMG” on Medium
- “Some lessons for an old IIT from a new one” on Medium
- Blogs about CC Vocabulary on Creative Commons.