Dhruv Bhanushali

Technical writer



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Areas of interest



Skills

- 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

Education



Indian Institute of Technology Roorkee Bachelor of Technology (B. Tech.)

□ 2015 − 2019 Engineering Physics

Experience



Software engineer

FamPay



- Wrote the core transaction API of the platform.
- Integrated with the Cashfree payment gateway.
- Developed transaction SMS notification system.
- Developed the support engine of the platform.

Software engineer

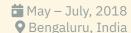
Creative Commons

April – September, 2019 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

HackerEarth



- Wrote the IaC for the entire production architecture.
- Wrote the lac 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 engineer

HackerEarth

■ May – July, 2017 • 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.

Chief technology coordinator

Information Management Group

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.
- Fostered OSS culture with a record 30 repos open-sourced.
- Lead IMG to 10 and 13 GSoC selections in 2018 and 2019.
- Reinvigorated IMG's popular image on social media.

Computer languages (+frameworks)

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

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

Design system

i May 2019 − PresentI 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 and Netlify.
- Identified easy issues to encourage beginner contributors.
- Published the library to npm, jsDelivr and unpkg.

Omniport backend

Campus portal platform

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

Holistic documentation

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



Thoughts to words

☐ Occasional, intermittent☐ 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.