

Unlocked

Growing Your Skills Through Open Source Development And Civic Hacking





improving
It's what we do. ™

FANDUEL

Sponsors

Hylaine
Solving Technology. Together.

WilderMinds



Who am I?



Nerando Johnson |@Nerajno

Software Developer/

Tech Community Organizer


EMERGENCY EXIT
Chuckles I'm in danger.

Why This Topic ?





Genesis Of This Talk



Genesis Of This Talk

Glenn Renfro

Twitter: @cppwfs

Mastodon: @cppwfs@fosstodon.org



Glenn Renfro is a core committer for Spring Cloud Task, Spring Batch and Spring Cloud Data Flow

Collaboration / Scheming

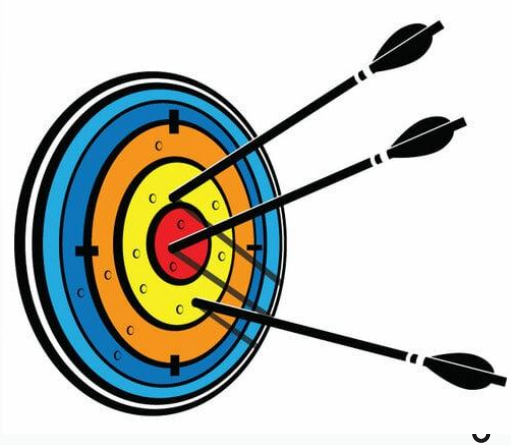


Objectives/ What We Gonna Cover

What is Open Source Development ?

How ?

Skills learnt from the process ?



Objectives/ What We Gonna Cover



What is Civic Hacking ?

The Why ?

The How ?

The skills that are gained ?

Disclaimer

All of this is my opinion:
My Experiences
My Insights
My Observations

BIASED : Trained Science Educator/
Tech Community Facilitator/
Decent~ish Developer (Vue)



Question ?



Traditional Learning: CS/MS








Linda, listen,
listen !

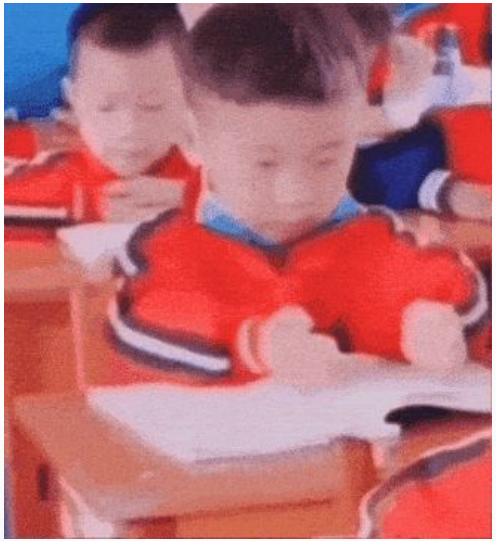
Non-Traditional Learning:

Bootcamp/Self- Taught/Apprenticeship





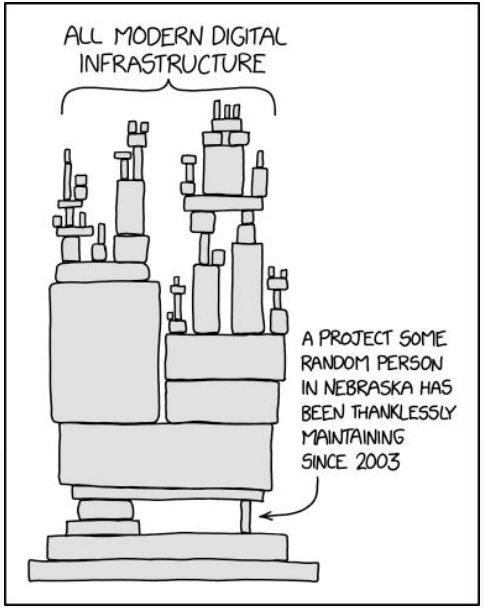
Career Growth : Blogs, Books, Tutorials, Projects, Watching Videos





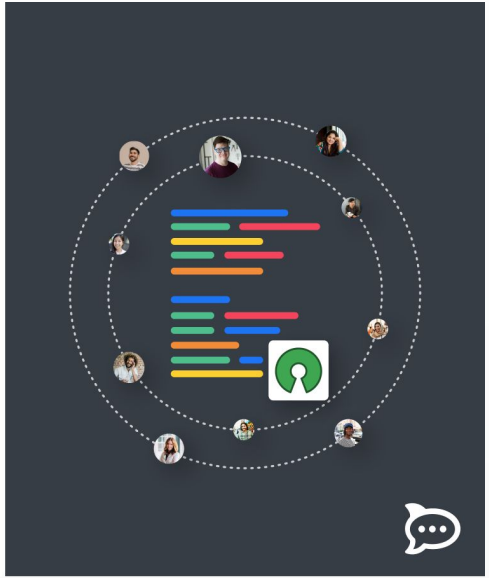
- Open Source Development
- Civic Hacking

Open Source Technology/ Software



Open Source Technology/ Software

Open-source software is software with publicly available code. This means that **anyone can not only inspect the source code but also modify it** and enhance it.



Open Source Software :
Key Principles



Open Source Software : Key Principles

Transparency

Code is visible to all

Free Redistribution

Can be shared and modified

Community-Driven

Maintained by a diverse group

Collaboration

Anyone can contribute meaningfully

License Compliance

Adherence to open source licenses



Open Source Software :
A Brief History



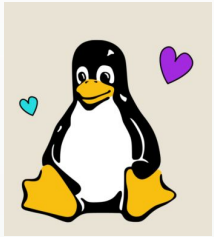
Brief Timeline

A-2 System
1950s

GNU
1980s



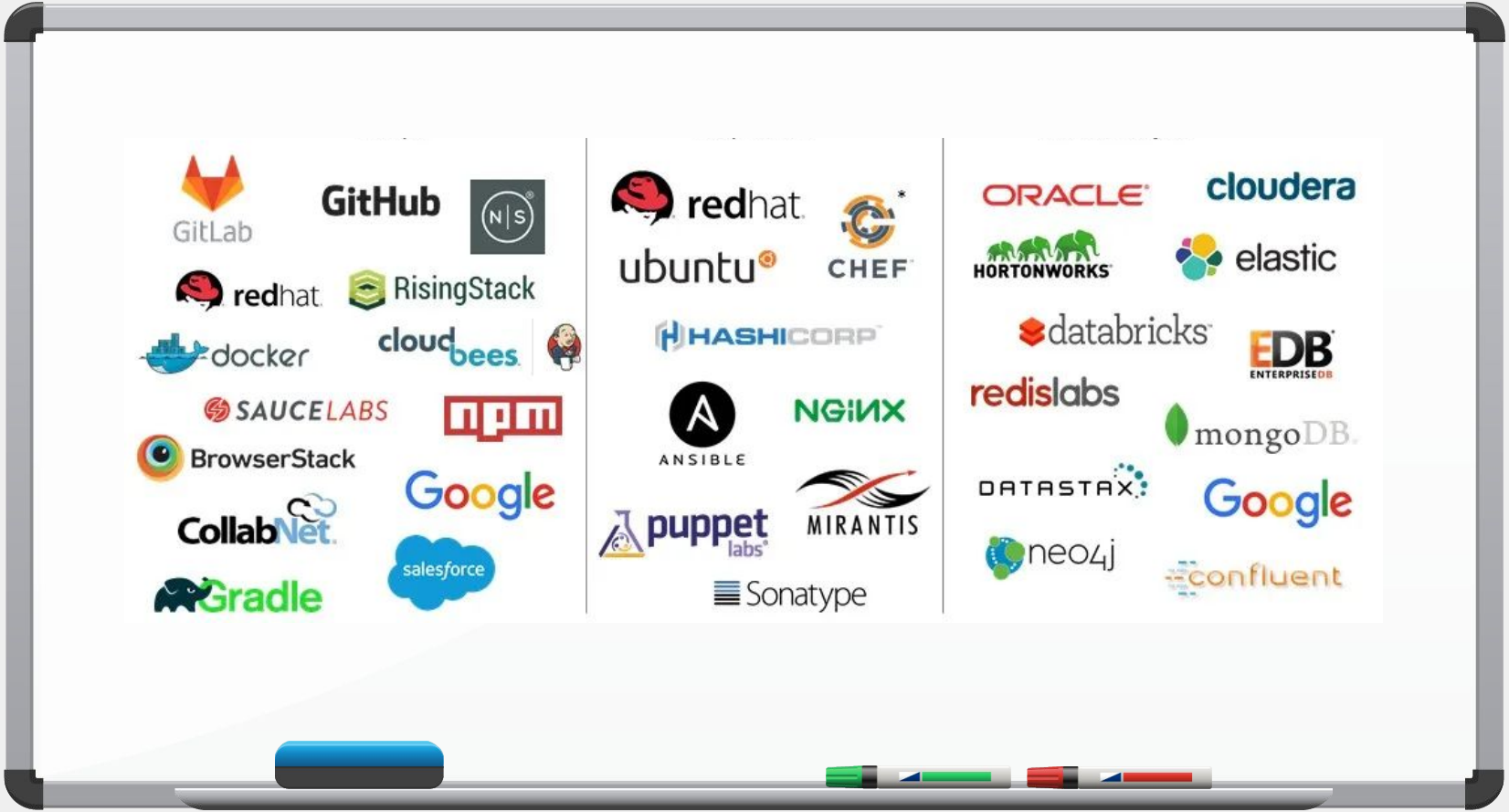
Linux
1990s



Netscape
1990s - 2000s




OpenOffice.org
fedora
blender
mozilla
Firefox
Linux
php
MySQL
debian
Java
WordPress
Apache
ubuntu


GitLab
GitHub
redhat
RisingStack
docker
cloudbees
SAUCELABS
npm
BrowserStack
Google
CollabNet
salesforce
Gradle
redhat
ubuntu
CHEF
HASHICORP
ANSIBLE
NGINX
puppet labs
MIRANTIS
Sonatype
ORACLE
cloudera
HORTONWORKS
elastic
databricks
EDB
ENTERPRISEDB
redislabs
mongoDB.
DATASTAX
Google
neo4j
confluent

How do I get involved ?





Open Source Development is Community Work

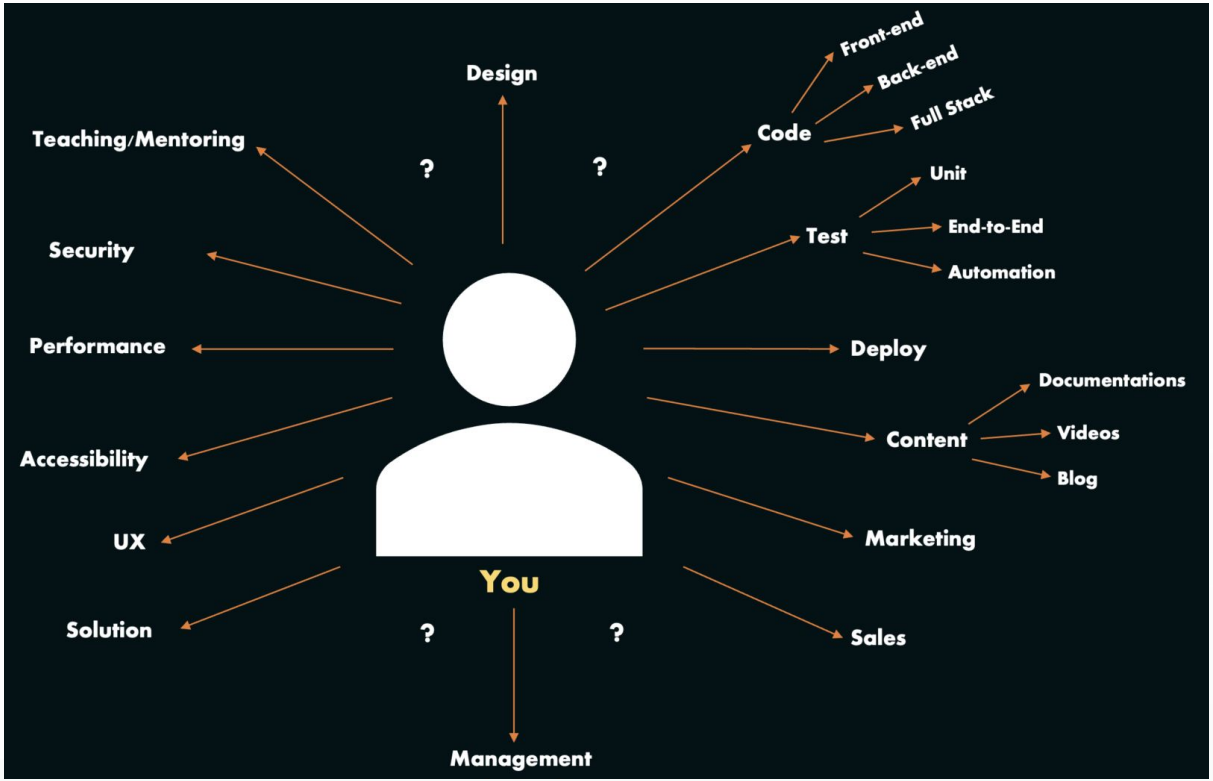











Design
Front-end
Back-end
Full Stack
Code
Teaching/Mentoring
?
?
Unit
Test
End-to-End
Automation
Security
Performance
Deploy
Documentations
Content
Videos
Blog
Accessibility
UX
Marketing
You
Solution
?
?
Sales
Management


UFC
MANSCAPED
There are levels to this.



Places to find Ways to Contribute



Popular Platforms

Github, GitLab, Twitter

In-Person/ Online Community Suggestions

Ask Questions Of People

Open Source Organisations and Foundations

Google it, Yes I am serious



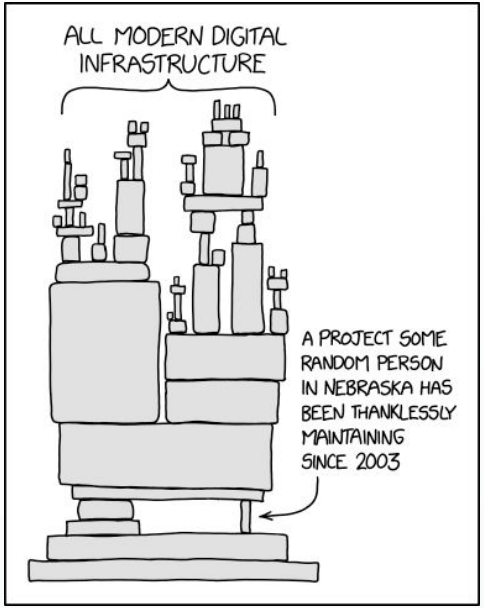


BEGINNER FRIENDLY OPEN-SOURCE PROJECTS LIST !

CODESCORD.HASHNODE.DEV



Open Sourced Technology






0:51


Hack the planet!

Civic Hacking

“Everyone can be great, because everyone can serve.”

— Martin Luther King, Jr.

Pitch

- How to use civic hacking to grow your soft skills.
- How to use civic hacking to grow your technical skills.
- How to use civic hacking as a networking tool.
- How to use civic hacking projects as a part of job hunting (both technically and behaviorally).

01

DEFINE

What is it ?

02

EXAMPLES

Who used it ?

03

USAGE

How can you use it ?

04

STORY TIME

How I used it.



01 DEFINE

WHAT IS IT ?

Civic Hacking is .....

Civic hacking refers to the use of technology and open data to create innovative solutions that address civic and social issues.



Civic Hacking Uses

- Innovation
- Unconventional Probleming

02 EXAMPLES

YES, IT WORKS

The Ushahidi Platform

is an open-sourced Kenyan software platform that provides a set of tools for collecting, visualizing, and analyzing data from multiple sources. Thus the information is :

- Crowdsource data
- Map and visualize data
- Collaborate and share data
- Analyze and report data
- Customizable
- Mobile responsive
- Open-sourced

Application of this data ?



Crisis response and management

Acquires data and makes it readily available to authorities as needed



Community mapping and development

Maps and tracks community assets, such as schools, health clinics, and water sources



Election monitoring and voter education

Monitor elections and provide real-time reporting on voting irregularities, election violence, and voter turnout.



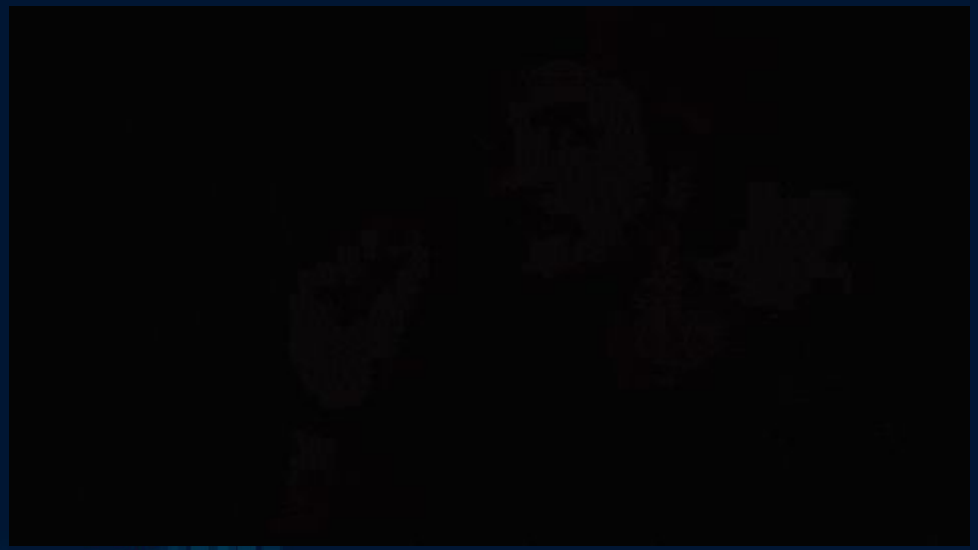
Hack the City

A Finnish event that brings together developers, designers, and other civic tech enthusiasts to work on projects that improve city services and promote citizen participation.

BudgIT

Is a civic tech organization in Nigeria that uses data and technology to make government budgets more transparent and accessible to citizens

Come Closer



The closer you are, the less you see



Code for Atlanta

A brigade of Code for America. We partner with local organizations and governments on civic-minded projects that make metro Atlanta more inclusive, diverse, equitable, and accessible.

Projects/Impact :

- Open Data Resources for Metro Atlanta and the State of Georgia
- Georgia Courtbot
- Marta.js - Marta's real time Apis

03 USAGE

How can you use it ?

Step 1 - Process



Show Up & Be Sincere

- Research and got to the meetups.
- Bring your skills and you.
- Leave the fear at home.

Be Consistent

- Attend meetings
- Do the work
- Communicate
- Be Accountable

Step 2 - Learn



- Gaining experience (Project Management/ writing Code)
- Professional Development and Upskilling
- Opportunity to Use Skills for Social Good
- Increased Development of Communication skills

Step 3 - Learn V2



- Contributing to Open Source Projects
- Building A Portfolio of Work.
- Opportunity to work on Meaningful Projects

Step 3 - Lead



- Create or find new projects
- Grow Others
- Write or Create Documentation

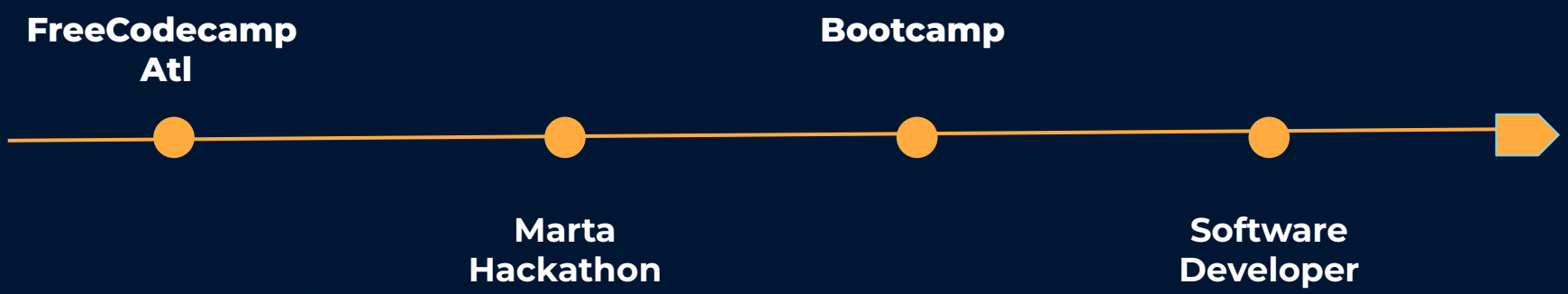
04 STORY TIME

How I used it

Do It Scared



Career thus far



Takeaways

- Do the Research and Find the Community
- Participate In the Community
- The Possibilities are Endless



Thank You



Questions

