- Personal Recommendation / Opinion
- Alternative Option - Pick this or purple
- Order in roadmap not strict (Learn anytime)
- I wouldn't recommend

Find the detailed version of this roadmap along with resources and other roadmaps

http:// roadmap.sh

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DevOps

Learn a Programming Language

It doesn't matter which language you pick, key is to get some programming knowledge for automation

- Python
- Ruby
- Node.js
- Go
- Rust
- C
- C++

Understand different OS Concepts

- Process Management
- Threads and Concurrency
- Sockets
- POSIX Basics
- Networking Concepts
- Startup Management (initd)
- Service Management (systemd)
- I/O Management
- Virtualization
- Memory/Storage
- File Systems

Learn about Managing Servers

Get some administration knowledge in some OS. Go with any Linux distro. Pick Ubuntu if you have a little no experience with Linux.

- Operating System
  - Linux
    - SUSE Linux
    - Debian
    - Fedora
    - Ubuntu
    - CentOS
    - RHEL
  - Unix
    - FreeBSD
    - OpenBSD
    - NetBSD
  - Windows
- DNS
- OSI Model
- White/Grey Listing

Learn to live in Terminal

- screen
- tmux
- terminal multiplexers
- Learn Bash Scripting
- Vim/Nano/PowerShell/Emacs
- Compiling apps from source (gcc, make and other related stuff)
- Text Manipulation Tools: awk, sed, grep, sort, uniq, cat, cut echo, fmt, tr, nl, egrep, fgrep, wc
- Process Monitoring: ps, top, htop, atop, lsof
- Network: nmap, tcpdump, ping, mtr, traceroute, dig airmon, airodump, dig, iptables, netstat
- System Performance: nmon, iostat, sar, vmstat
- Others: strace, dtrace, systemtap uname, df, history

Networking, Security and Protocols

- Emails
  - SMTP
  - IMAPS
  - POP3S
  - DMARC
  - SPF
  - Domain Keys
- HTTP
- HTTPS
- FTP
- SSL / TLS
- SSH
- Port Forwarding

What is and how to setup a _____

- Reverse Proxy
- Caching Serve
- Forward Proxy
- Load Balancer
- Firewall
- Web Server
  - IIS
  - Nginx
  - Apache
  - Tomcat
  - Caddy
- Istio
- Envoy
- Linkerd
- Consul
- Service Mesh

Learn Infrastructure as Code

- Containers
  - Docker
  - rkt
  - LXC
- Configuration Management
  - Ansible
  - Chef
  - Salt
  - Puppet
- Container Orchestration
  - Kubernetes
  - Docker Swarm
  - Mesos
  - Nomad
- Infrastructure Provisioning
  - Terraform
  - CloudFormation
  - Pulumi

Learn some CI/CD Tool

- Gitlab CI
- GitHub Actions
- Bamboo
- Azure DevOps
- Jenkins
- Travis CI
- TeamCity
- Circle CI

Learn how to monitor software and infrastructure

- Infrastructure Monitoring
  - Prometheus
  - Nagios
  - Grafana
  - Zabbix
  - Monit
  - Datadog
- Application Monitoring
  - Jaeger
  - New Relic
  - AppDynamics
  - Instana
  - OpenTracing
- Logs Management
  - Elastic Stack
  - Graylog
  - Splunk
  - Papertrail

Cloud Providers

- AWS
- Google Cloud
- Azure
- Heroku
- Alibaba Cloud
- Digital Ocean
- Linode
- Vultr

Cloud Design Patterns

http://bit.ly/cloud-arch-patterns

- Availability
- Data Management
- Design and Implementation
- Management and Monitoring

Keep Learning