



Njũgũ J. Gachũgũ

Bot & Web Developer

- 20 July 1987
- Lansing, Michigan
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- <https://www.njugugachugu.us/>
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About me

Njũgũ is a nerd from a loving middle-class family who has been in love with science, technology, film, and music since childhood. He loves to spend his time solving technical problems, playing with Linux, building things, pursuing cutting-edge ideas, being creative, and using his imagination. He also loves bringing ideas and creations to life by giving them presence on the Internet. Njũgũ has always displayed great curiosity and attempts to fit his diverse experiences into a clear understanding of the world. He's a forward-thinking person who wishes not to settle for the world we live in today, but to push for the world we could be living in tomorrow.

Top skills

Linux Systems Administration



Web Development



Databases



Software Engineering



Photo Editing



Film Editing



(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

♥ interests

Astrophysics	Computer Science	Space Exploration
<ul style="list-style-type: none"> • Black Holes • Quantum Cosmology • General Relativity • Gravitation • Astrobiology • Relativistic Astrophysics • Time Travel 	<ul style="list-style-type: none"> • AI • Machine Learning & Neural Networks • Robotics • Quantum Cryptography • Automation • Web Technology • Game Development • Linux 	<ul style="list-style-type: none"> • In-Situ Resource Utilization • Microgravity Research • Long-Duration Spaceflight • Planetary Exploration • Terraformation • Space Stations • Space Elevators

🏛️ education

- 2008-2010, 2011-2014 Quadruple Major University of Hawai'i at Hilo
 25 credits toward B.Sc. in [Astronomy](#)
 39 credits toward B.Sc. in [Computer Science](#)
 41 credits toward B.A. in [Mathematics](#)
 14 credits toward B.A. in [Physics](#)
- 2006-2007 Astrophysics Major Michigan State University
 16 credits toward B.Sc. in [Astrophysics](#)
- 2004-2006 Music Therapy Major Michigan State University
 Took classes in [Musicology](#), [Music Theory](#), and [Music Therapy](#)
- 2004-2006 Double Major: Classical Piano and Classical Voice Lansing Community College
 Took classes in [General Education](#) and [Music](#)
- 2003-2004 High School Student Dominion Leadership Academy
 Excelled in [Mathematics](#), [History](#), and [Weight-Lifting](#)
- 2001-2003 Classical Piano Major Lansing Community College
 Took classes in [General Education](#) and [Music](#)

✓ courses completed

Astrophysics	<ul style="list-style-type: none"> • Mechanics • Planets & Telescopes • Observational Astronomy • Computational Astrophysics • Electricity & Magnetism • Astronautics
Computer Science	<ul style="list-style-type: none"> • Object-Oriented Programming (C++) • Graphics & Game Programming • Web Technology • Computer Organization & Assembly Language • Data Structures • Systems Programming (UNIX) • Computer Architecture • Database Internals • Database Systems Design • Operating Systems • Networks & Data Communications • Software Engineering



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Languages

- AJAX
- Assembly
- Bash
- C
- C++
- CSS
- fish
- HTML
- Java
- JavaScript
- Kotlin
- \LaTeX
- Perl
- PHP
- Python
- SPP
- SQL
- Stata

Frameworks & Libraries

- AngularJS
- Bootstrap
- Compass
- Express.js
- Foundation
- jQuery
- Laravel
- SASS
- Next.js
- Node.js

✓ **cou**rses completed continued

Mathematics

- Elementary Algebra
- Trigonometry
- Geometry
- Univariate Differential Calculus
- Univariate Integral Calculus
- Multivariate Differential Calculus
- Multivariate Integral Calculus
- Discrete Mathematics
- Linear Algebra
- Topology
- Group Theory
- Ring Theory

☰ experience

2017-2021 [Strange Quark](#)

Owner & Developer

[Online](#)

One stop solution for LAMP-based hosting, bot development, web development, SEO, ecommerce, domain registration through Enom, SSL certification, PCI Compliance, and social media marketing. Main tasks involved building website solutions for clients (mostly WordPress sites) and providing LAMP-based hosting services, as well as assisting clients with content generation, SEO, and social media marketing.

2016-2017 [Marketing Relevance](#)

Web Developer

[Arlington Heights, Illinois](#)

A marketing/PR firm primarily focused on providing web-based solutions for real estate marketing. Main tasks involved back-end development for the company's proprietary PHP-based content management system as well as development of client websites built on the content management system. I was also in charge of WordPress development. Secondary tasks involved Linux systems administration for the company's hosting environment.

2015-2016 Self-Employed

Freelance Web Developer

[Online](#)

Offered freelance web development, mostly specializing in WordPress, as well as hosting services. These services would become the foundation for the later Strange Quark business.

2014-2015 [WiredTree](#)

Linux Systems Administrator

[Chicago, Illinois](#)

A former LAMP-based web hosting company now bought out by Liquid Web. Main tasks involved technical support for clients, both relating to the LAMP stacks serving their websites as well as the hardware running those stacks. Secondary tasks involved building, testing, and imaging new production servers, as well as monitoring active services for clients.

2011-2014 [Subaru Telescope](#)

Laser Spotter

[Maunakea, Hawai'i](#)

A Hawai'i-based large optical/infrared telescope operated by the [National Astronomical Observatory of Japan](#). Main tasks involved monitoring air traffic around the Subaru Telescope during laser guide-star observations in order to clear the telescope operator for laser propagation without the risk of collision with aircraft.

2012-2014 [W. M. Keck Observatory](#)

Intermittent Aircraft Spotter

[Maunakea, Hawai'i](#)

An interferometry-capable pair of Hawai'i-based large optical/infrared telescopes operated by the California Association for Research in Astronomy (CARA). Tasks were similar to the Laser Spotter tasks performed for the Subaru Telescope, but also included assisting Night Attendants with telescope preparation and general telescope operation tasks as needed.



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Technologies

- Apache
- CSF
- Exim
- Git
- IRAF
- Litespeed
- MySQL
- Nginx
- SSH
- Virtuozzo
- WHM/cPanel
- Davinci Resolve
- GIMP
- Iptables
- Kayako
- MariaDB
- Nagios
- PostgreSQL
- SSL

CMS

- Drupal
- WordPress

OS

- #!++
- Arch Linux
- CentOS
- Fedora
- Kali Linux
- LXLE
- RHEL
- Ubuntu
- Windows 11
- Android
- Bodhi Linux
- Debian
- Gentoo
- Linux Mint
- Pop!_OS
- Sabayon Linux
- Windows 10

exp̄erience continued

- 2012-2013 [NASA Infrared Telescope Facility](#)
Student Database Administrator Hilo, Hawai'i
A Hawai'i-based infrared telescope operated on behalf of [NASA](#) by the [University of Hawai'i Insitute for Astronomy](#). Main tasks involved assisting with maintenance and innovation of database storage management systems, IRTF website back-end development, server construction, and Linux systems administration.
- 2012 [Pacific International Space Center for Exploration Systems](#)
PISCES Technician Maunakea, Hawai'i
A Hawai'i-based aerospace center focused on space exploration technology. Main tasks involved preparing a site on Maunakea, Hawai'i for a [NASA In-Situ Resource Utilization \(ISRU\)](#) analog mission to test and demonstrate techniques to prospect for lunar ice as a part of the ISRU's [Artemis Program](#). Other tasks involved providing as-needed assistance during the [Regolith and Environment Science and Oxygen and Lunar Volatile Extraction \(RESOLVE\)](#) test involving the [NASA Jet Propulsion Laboratory's](#) and [Canadian Space Agency's](#) rover Artemis Jr. and a drill (the components of the RESOLVE payload).
- 2011 [Maunakea Visitor Information Station \(MKVIS\)](#)
Interpretive Guide Maunakea, Hawai'i
The visitor center for Maunakea and midway point to the Maunakea observatories. Main tasks involved providing information, education, and services to visitors of the station, as well as performing guided tours of the Maunakea observatories, and giving star tours and science talks after sunset. Secondary tasks involved assisting visitors in the use of the station's public telescopes, management of the shop and its inventory, and cashiering services.
- 2010 [Liquid Web](#)
Support Technician & Monitoring Technician Lansing, Michigan
I worked for Liquid Web under old management and ownership. Tasks were similar to some of the Linux Systems Administrator tasks performed for WiredTree, but more specialized in the sense that each admin was dedicated toward a specific component of hosting support (e.g. monitoring, technical support, security, etc.), as opposed to being generally responsible for everything like at WiredTree.
- 2009-2010 [Institute for Astronomy](#)
Systems Administrator Hilo, Hawai'i
A [University of Hawai'i](#) institution to manage the Haleakalā Observatories on Maui and the Maunakea Observatories on Hawai'i. Main tasks involved provisioning servers for the IFA's data center and for installment at Maunakea observatories, as well as installing, configuring, and administering CentOS systems and various software for use by IFA scientists. Secondary tasks involved providing on-demand technical support to IFA staff and scientists.
- 2009 [Variable Young Stellar Objects Survey \(VYSOS\)](#)
Student Software Engineer Hilo, Hawai'i
A robotically operated Hawai'i-based optical telescope surveying young solar-like stars and providing atmospheric extinction coefficients to atmospheric scientists. Main tasks involved creating a fork of the Wolf software (a software program for meteor photometry, sky calibration, and trajectory determination written in C) that could be used to track electromagnetic attenuation via atmospheric thickness in the sky above the VYSOS telescopes using All-Sky Camera technology and fuzzy logic. Secondary tasks involved assisting the Principal Investigator [Dr. Bo Reipurth](#) in telescope engineering tasks at the observatory site on Maunaloa.