👨‍🎓 Node.js & Git Installation Guide

Windows | macOS | Linux

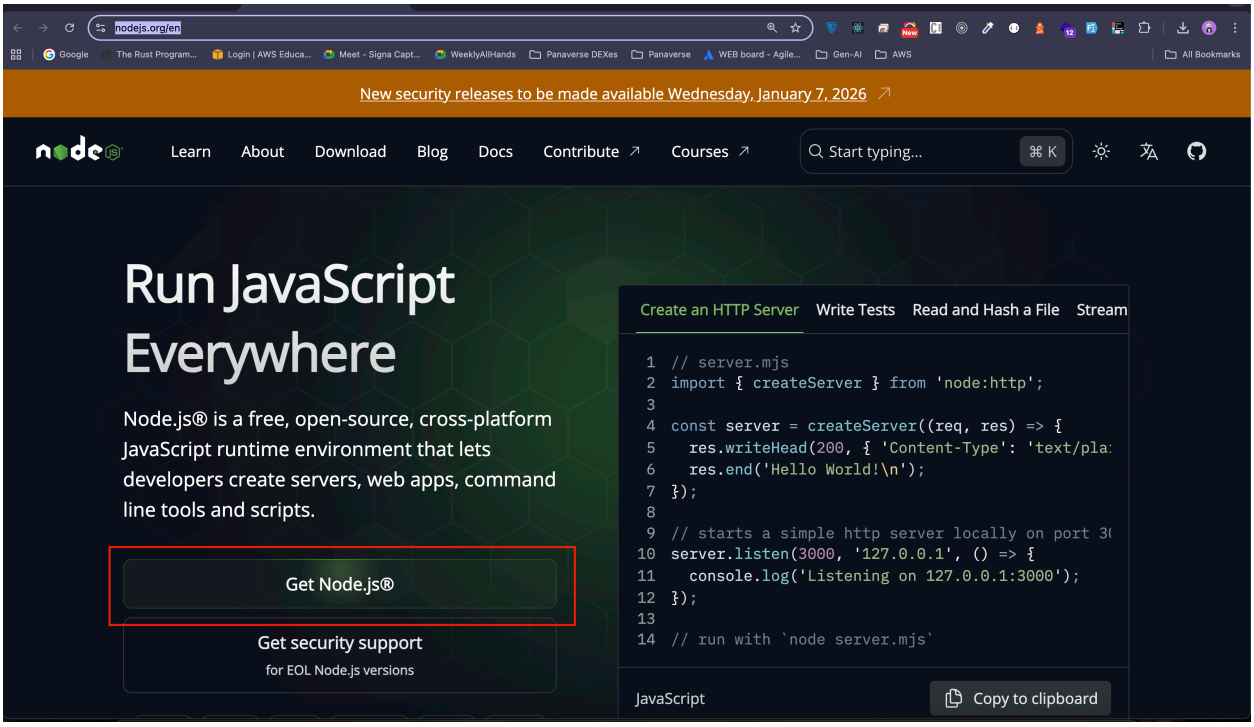
🎯 Purpose

This guide helps students **install and verify Node.js and Git** on **Windows, macOS, and Linux**.

Follow the steps carefully. No prior experience required.

🌐 Official Download Source

👉 https://nodejs.org/en



Click on Get Node.js

🔢 Current Node.js Versions (as shown on official site)

- **Latest LTS:** v24.x
- **Current Release:** v25.x

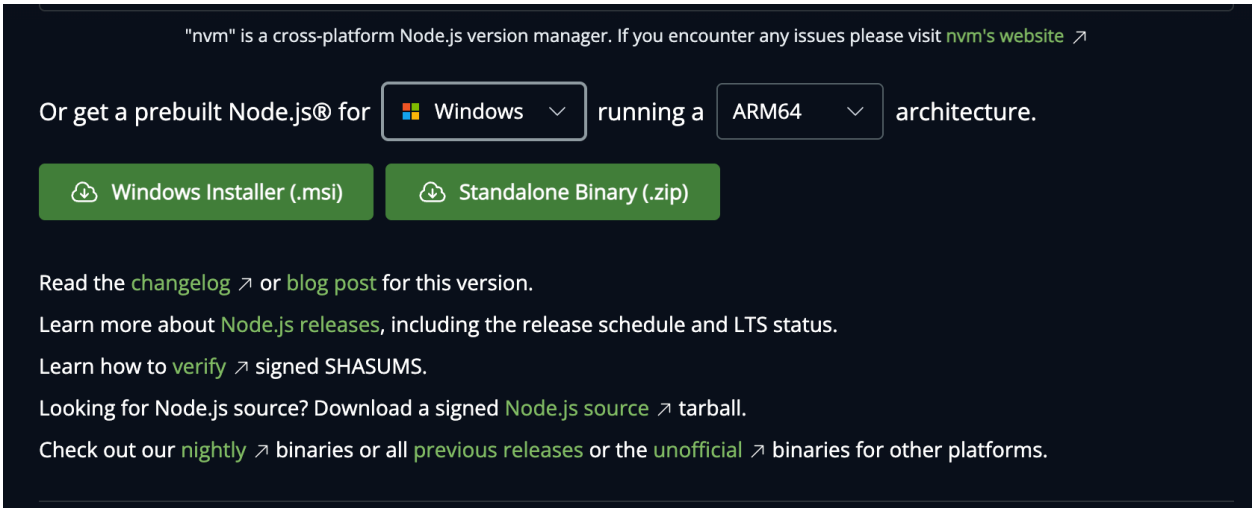
> 💡 Students should install the LTS version for stability and compatibility.

🪟 Windows Installation

🔷 Install Node.js

Step 1: Download

1. Open https://nodejs.org/en
2. Click **LTS (v24.x)**
3. Download the `.msi` installer



Step 2: Install

1. Double-click the downloaded file
2. Click **Next**
3. Accept the license agreement

4. Keep default settings
    - ✅ npm package manager
    - ✅ Add Node.js to PATH
5. Click **Install → Finish**

Step 3: Verify

Open **Command Prompt** or **Git Bash** and run:

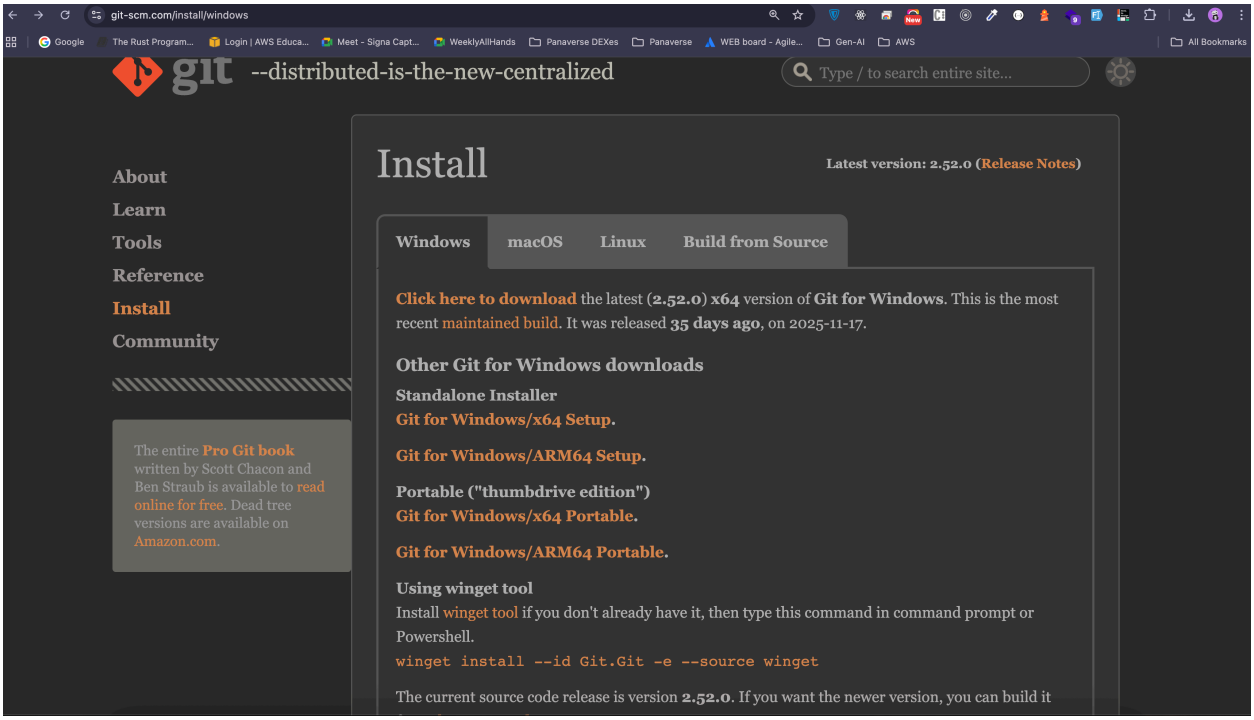
```
node -v
npm -v
```

✅ Versions displayed → Node.js installed successfully

🔷 Install Git (Git Bash)

Step 1: Download

👉 https://git-scm.com/install/windows



Step 2: Install

1. Run the installer
2. Keep default options
3. Make sure **Git Bash** is selected

Step 3: Verify

Open **Git Bash** and run:

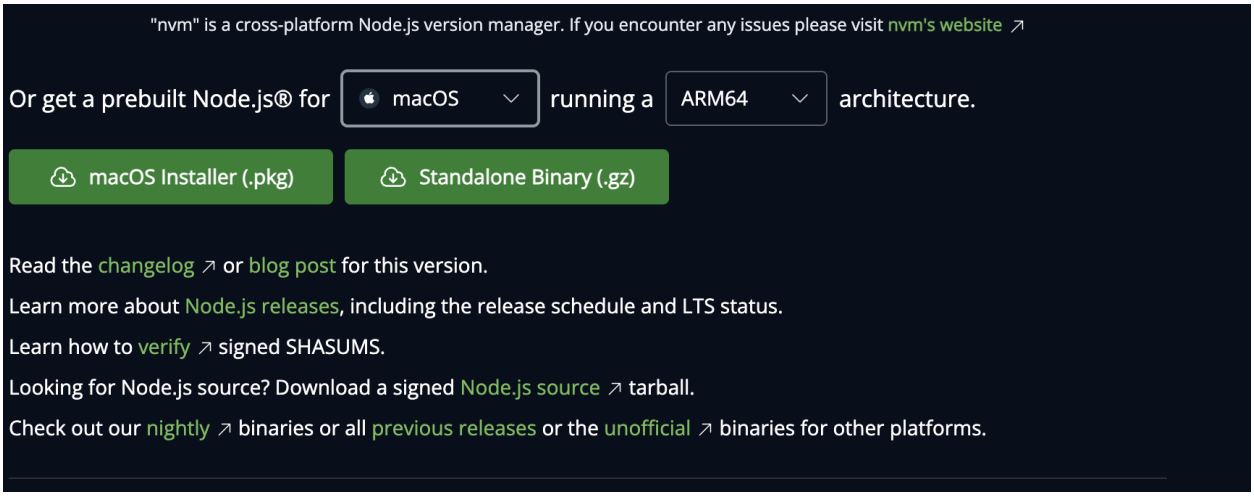
```
git --version
```

🍎 macOS Installation

🔷 Install Node.js

Option 1: Official Installer

1. Visit https://nodejs.org/en
2. Download **LTS (.pkg)**



1. Open the installer

2. Follow on-screen instructions

Verify

Open **Terminal** and run:

```
node -v
npm -v
```

🔷 Install Git

Run in Terminal:

```
git --version
```

If Git is not installed, macOS will prompt to install **Xcode Command Line Tools**.

🐧 Linux Installation (Ubuntu / Debian)

🔷 Install Node.js (LTS)

Run the following commands:

```
sudo apt update
sudo apt install -y curl
curl -fsSL https://deb.nodesource.com/setup_24.x | sudo -E bash -
sudo apt install -y nodejs
```

Verify

```
node -v
npm -v
```

🔷 Install Git

```
sudo apt install -y git
```

Verify:

```
git --version
```

✅ Final Verification (All Operating Systems)

Run:

```
node -v
npm -v
git --version
```

✔️ If all commands return version numbers, the installation is complete.

🟢 Installation Checklist (Notion-friendly)

- ☐ Node.js installed
- ☐ npm installed
- ☐ Git installed
- ☐ Versions verified

⚠️ Common Issues

❌ `node` or `npm` not recognized

- Restart the system
- Reinstall Node.js

- Ensure **Add to PATH** was checked

❌ Permission errors (macOS / Linux)

Use `sudo` before commands.

🎉 You're Ready!

You can now proceed with:

- JavaScript programming
- Frontend frameworks (React, Angular, Next.js)
- Backend development
- GitHub collaboration
