

# WordPress Back-end Developer Training

## Core Technologies

- The Internet
- IP Protocols
- Routing
- Client/Server
- Internet Services
  - WWW/HTTP/Apache
  - Mail/SMTP/POP/IMAP
  - DNS/Nameservers
  - /etc/services
- Servers
- Physical vs Virtual
- Operating systems
- Linux Basics
  - Command Line
  - The Shell
  - SSH
  - Starting/Stopping services

- The WordPress Stack
- WordPress + LAMP (MAMP, XXAMP)
- Web servers
  - Apache/NGINX
  - Virtual Servers
  - PHP Modules
  - Other important modules
- Database Servers
  - MySQL/MariaDB
- Security
  - SSL/HTTPS
  - Firewalls
- Performance
  - Caches/CDN
  - Server

# WordPress Development Workflow

- Local Development
- Installing MAMP (Lab)
- Installing PHPStorm (Lab)
- Other development environments: Docker, VVV
- Dependency Management & Workflow Automation
  - npm/grunt
  - Composer
- HTML Tag Review
- PHP Basics
- Create a child theme (Lab)
- Using Git
- Mr Potato Head: How to Write a WordPress Plugin
  - The WP Plugin Boilerplate
  - Coding Standards
  - Naming and version numbering
    - File Header API

- Add a shortcode
  - Shortcode API
  - Using the PHPStorm Debugger
- Add a setting (lab)
  - Options API
  - Settings API
- Add a Widget
  - Widget API
  - Using Hooks
- Creating Custom Post Types
  - Custom Fields
  - Metadata API
  - Metabox API
  - Custom Taxonomies
- Add a stylesheet
  - CSS Basics
  - SASS
- Add javascript
  - Quick Tags API
  - Javascript Basics

- Localization
  - Using localization functions
  - How to translate a theme or plugin
  - Localizing client-side strings
- Media Library
  - Images in WordPress
  - Responsive Images
  - Images and performance
  - Filesystem API
  - Database API
- Front End Development
  - Using jQuery
  - Connecting the backend
  - AJAX
  - WordPress REST API
  - Adding endpoints
  - Rewrite API
  - Javascript UI Frameworks (Angular, Vue, React)
- Optimizing for Security, Accessibility, SEO, and Performance
  - Transients API
  - XML-RPC API
  - Semantic Content
- WordPress Theme Development

## Deployment and Automation

- Deployment: Development to Staging
- Deployment: Staging to Production
- Automation
  - Grunt
  - Composer
  - WP-CLI
  - Unit Testing