

# Modern Web Development with Content Management Systems

*Richard Quackenbush*



# Modern Web Development with Content Management Systems

A stylized graphic of a globe with orange and red flames rising from it, set against a blue background. The globe is represented by a black circle with orange lines forming a grid. The flames are in shades of orange and red, extending upwards and to the right.

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# OmniTechPro

Omni Technology Professionals, Inc.

- Locally owned small business
- Technology and Business Needs company
- Website development and administration
- Owned by former SU student

# Responsibilities

- Designing and developing web applications according to customer specification
- Maintaining legacy web applications
- Full stack development
  - Graphics design, user interface
  - Server and client side programming
  - Database management

# Technologies Used



Joomla



CakePHP



Drupal

- Web based Content Management Systems
- Open source and heavily extensible
- Large user communities, heavily documented

# Graphics Design



## GNU Image Manipulation Program

- Open source image editing suite



## Bootstrap

- HTML, CSS, Javascript Framework
- Mobile-first web design

# Challenges Faced

- Developing application using a RESTful web API for an investment service
  - No testing interface or way to simulate transactions
  - Thorough code review
  - First test calls against the API using real money
- Adapting quickly to new frameworks and requirements
- No prior experience with graphics design or PHP content management systems

# Conclusion

- Learned valuable new skills
- Developed an appreciation for real world problems
- Gained experience in creating maintainable code