

# EDWARD LANGLEY

**Email:** edward@elangley.org  
**Phone:** 832-585-2660

3900 Hamilton St. H204  
Hyattsville, MD 20781

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<b>SKILLS</b>	<p>Designed and implemented applications using a variety of programming paradigms and languages.</p> <p>Produced web applications using a variety of server-side and client-side frameworks.</p> <p>Maintained web servers and related services such as PHP-FPM and uWSGI.</p> <p>Administered networks and implemented remote access via OpenVPN, OpenSSH and VNC.</p> <p>Configured and maintained email servers and spam filtering.</p> <p>Administered a variety of Linux distributions and other Unices</p>												
<b>TECHNOLOGIES</b>	<p>Python, JavaScript, PHP, C, C++, Java, SQL, Ruby, Haskell, OCaml, Common Lisp, <math>\text{\LaTeX}</math></p> <p>HTML, CSS (Compass, Sass, Bootstrap, Susy grids), AngularJS, jQuery, Backbone.js, Knockout.js, Drupal, Symfony2, Apache, Nginx, PHP-FPM, uWSGI</p> <p>Git, Mercurial, Subversion, CVS</p> <p>MySQL, PostgreSQL, Interbase/Firebird, BerkeleyDB, MongoDB, Redis</p> <p>Postfix, Sendmail, Dovecot, OpenDKIM, DSPAM, Roundcube</p> <p>Vi/Vim, VirtualBox, OpenVPN, NFS, Samba</p> <p>Unix, Linux, FreeBSD, Solaris (SmartOS), Mac OSX, AWS (EC2, S3, RDS, Route53)</p>												
<b>EXPERIENCE</b>	<table><tr><td><b>Programmer</b> 2014–present</td><td>Independent Consultant Hyattsville, MD</td></tr><tr><td colspan="2">Produced a theme for an e-commerce site. Designed and Implemented a deployment strategy for Amazon's cloud services (EC2, RDS, S3). Implemented and themed a new e-commerce platform.</td></tr><tr><td><b>Python Programmer</b> 2007–2012</td><td>NCMI, Baylor College of Medicine Houston, TX</td></tr><tr><td colspan="2">Built a web framework for EMEN2, a document-oriented database for recording scientific experiments. Improved EMEN2's reliability and performance by debugging and fixing memory leaks and taking advantage of Berkeley DB's transactional storage. Implemented the JSON-RPC 2.0 protocol (<a href="https://www.github.com/NCMI/jsonrpc">https://www.github.com/NCMI/jsonrpc</a>). Prototyped OpenID authentication. Managed migration to EMEN2.</td></tr><tr><td><b>IT Assistant</b> 2004</td><td>Desktop Assistance, L.P. Houston, TX</td></tr><tr><td colspan="2">Installed and configured Linux desktops and servers. Built a Linux distribution based on Fedora Cores 1 and 2 for internal use. Researched, installed and configured a variety of server applications including: databases, Apache, Squid, Samba, NFS.</td></tr></table>	<b>Programmer</b> 2014–present	Independent Consultant Hyattsville, MD	Produced a theme for an e-commerce site. Designed and Implemented a deployment strategy for Amazon's cloud services (EC2, RDS, S3). Implemented and themed a new e-commerce platform.		<b>Python Programmer</b> 2007–2012	NCMI, Baylor College of Medicine Houston, TX	Built a web framework for EMEN2, a document-oriented database for recording scientific experiments. Improved EMEN2's reliability and performance by debugging and fixing memory leaks and taking advantage of Berkeley DB's transactional storage. Implemented the JSON-RPC 2.0 protocol ( <a href="https://www.github.com/NCMI/jsonrpc">https://www.github.com/NCMI/jsonrpc</a> ). Prototyped OpenID authentication. Managed migration to EMEN2.		<b>IT Assistant</b> 2004	Desktop Assistance, L.P. Houston, TX	Installed and configured Linux desktops and servers. Built a Linux distribution based on Fedora Cores 1 and 2 for internal use. Researched, installed and configured a variety of server applications including: databases, Apache, Squid, Samba, NFS.	
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<b>PUBLICATIONS</b>	<p>Rees, I., Langley, E., Chiu, W., &amp; Ludtke, S.J. (2013). <i>EMEN2: an object oriented database and electronic lab notebook</i>. <i>Microsc Microanal</i> 19, 1–10</p>												
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