Edward Finkler

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I am a senior-level expert with over 20 years experience in developing web-based software. I am purpose-driven, principled, and strongly motivated by service to others.

Because of my expertise, I have been invited to speak at over 60 tech conferences around the world, including SXSWi, Adobe MAX, OSCON, All Things Open, The Combine, EmpireJS, Nodevember, The Perl Conference, PyOhio, and TedXLafayette.

Expert Skills

■ **Python**	■ **PHP**	■ **PostgreSQL**	■ **AWS EC2 and Amplify**
■ **Flask**	■ **Slim**	■ **MySQL**	■ **Elasticache**
■ **SQLAlchemy**	■ **JavaScript**	■ **MongoDB**	■ **Azure**
■ **Ansible**	■ **VueJS**	■ **Neo4j**	■ **Digital Ocean**
■ **Fabric**	■ **WordPress**	■ **Amazon RDS**	■ **Ghost**

Notable Projects

Group and Individual Benefits Enrollment System (*Lead Architect and Developer*)

Using: Heroku, Python, Flask, Celery, SQLAlchemy, PostgreSQL, VueJS, AWS Amplify Hosting, AWS S3, Redis, Ubuntu Linux

- Architected and implemented UI components and backend services for payment and enrollment data collection
- Migrated the system to an event-based model to eliminate daily timeouts and allow for scaling while performing responsively on a single 1GB AWS EC2 instance
- Researched, designed, and implemented a telephony conference system that works with any phone, can recite scripts for legal disclosures, and automatically records and stores calls for auditing purposes

Geomapping Registry (*Lead Architect, Developer, and DevOps*)

Using: Python, Pyramid, PostgreSQL, Celery, JavaScript, Ansible, AWS EC2, Ubuntu Linux, Geoserver, AWS ALB, Elasticache, Aurora RDS for PostgreSQL, and App Runner

- Redesigned a non-scaling custom architecture, reducing slow queries by 80% and allowing the system to scale easily without any code or DB schema changes

E-commerce Platform (*Lead Architect, Developer, and DevOps*)

Using: Python, Flask, SQLALchemy, PostgreSQL, Celery, Fabric, AWS EC2, AWS RDS, Ubuntu Linux

- Architected and built an e-commerce platform that handled registration services grossing over $7.8 million in the first two years

On-demand DB Deployment System (*Lead Architect, Developer, and DevOps*)

Using: Neo4j, PHP, MySQL, Ansible, Fabric, JavaScript, VueJS, Bootstrap

- Designed and implemented an on-demand deployment system for hosted Neo4j graph databases allowing customers to deploy instances immediately to AWS, Azure, Google Compute Engine, or Digital Ocean in any region

Spaz Microblogging Client (*Lead Architect, Developer, and Open-source Project Maintainer*)

Using: JavaScript, HTML, CSS

- Winner, 2007 of Adobe's "Best HTML Community Application"
- Architected and built an open source microblogging client for Twitter, Identi.ca, and StatusNet compatible with Palm/HP webOS, Windows, Mac OS X, and Linux (https://github.com/spazproject)

Work History

Dec. 2017 - Present - Software Developer (Delmar Software Development - West Lafayette, IN)

May 2015 - May 2017 - CTO, Lead Developer, Head of Developer Culture (Graph Story - Memphis, TN)

May 2015 - Aug 2016 - Developer (LegalServer - Chicago, IL)

Nov 2010 - Sep 2014 - Partner, Developer (Fictive Kin – Brooklyn, NY)

Apr 2010 - Nov 2010 - PHP and JavaScript Developer (HiiDef/Goodsie - New York, NY)

Jan 2002 - Apr 2010 - Web and Security Administrator (CERIAS, Purdue University – West Lafayette, IN)

Additional Expertise and Interests

Mental Health Advocacy

I am the founder and chairman of Open Sourcing Mental Illness (https://OSMIHelp.org), a non-profit 501c3 dedicated to raising awareness and supporting those with mental illness in the tech industry.

Music and Audio Production

I have had a lifelong interest in making music and enjoy using computers as tools for artistic expression. I offer inexpensive audio mastering and podcast production to support independent artists and creators.

Open Source Work

mandrill-tester – https://github.com/fictivekin/mandrill-tester
A tool to help designers create email templates using Mandrill

ncs-notifications – https://github.com/funkatron/ncs-notifications
A web-based notification system for a volunteer-run K-8 school

phpsecinfo – https://github.com/funkatron/phpsecinfo
An easy-to-use tool delivering PHP environment security information and suggestions for improvement

Inspekt – https://github.com/funkatron/inspekt
A comprehensive filtering and validation library for PHP