



Henry Lowengard (03-2017)
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I am interested in designing and writing mobile iOS apps, HTML5 powered web sites and web applications, infrastructure to run these systems, and tools to build and test these systems.

I've worked in Corporate environments (Cisco, Information Builders, Medidata Solutions) and startups (SWN, ErgoTech/G2X, CityMaps) as well as independently (Brand Expression, eSommelier).

I also do a few iOS projects on the side, and help design and maintain a few websites pro bono.

New protocols and APIs are coming out all the time, and I'm a fast and resourceful learner who can build them into something useful.

There's lots more about my and my work (and art and music) on <http://www.jhhl.net>

EXPERIENCE

Stationhead, Inc.

(February 2016-July 2016)

Stealthy startup that I really can't talk about much. iOS programming and maintenance, though. <http://stationhead.com>

Exago, Inc.

(January 2015-November 2015)

Exago is a Business Intelligence company, which provides a customizable solution for people who want to add interactive reporting and charting via website for their or their customers' data. I maintained parts of the product, as well as adding features relating to date functions and Dashboards. <http://www.exagoinc.com>

Medidata Solutions, LLC

(March 2012-April 2014)

Medidata Solutions (MDSOL on NASDAQ) is a leader in data management of clinical drug and medical device trials.

They recently have been getting into providing patient reported diaries on mobile devices, and I was their first hire exclusively for mobile. Medidata is a BDD/TDD Agile shop, and applied that philosophy to mobile development in a way that fits in with the rest of the testing and validation systems they were using. "Patient Cloud" is used in a number of studies, which is a new territory for Medidata to connect with: the world outside the clinic.

I did a lot of re-engineering on the app, which changed its UX/UI philosophy a few times over its development history. I also helped to come up with the scheme for testing the app using scenarios and feature files, by using an external server to mock all the API transactions. <https://www.mdsol.com/en/what-we-do/patient/patient-cloud>

Self-Employed Consultant

(2008 - Present)

- iPhone app consultant work for CityMaps. I refactored code, fixed issues, gave advice.

- Designed and wrote twelve iPhone and iPad applications currently in the Apple iPhone App Store, related to music, sound experimentation, and art. This website gives details, but many of them have innovative interfaces to support the rather hard to describe music they create. See this webpage for more info: <http://www.jhhl.net/iPhone>
- wrote the iOS version of AUMI, the Adaptive User Musical Instrument for Deep Listening Institute. AUMI is an app that helps severely disabled (and "temporarily abled") users play improvised music by tracking a video image. <http://aumiapp.com>
- More iOS apps are on the way, for me and other clients.
- Programming in PHP, Javascript, Python, Drupal, C, Objective C, C#, Java, Processing, MySQL, SQLite3, CSS, HTML, Wordpress, Web design.
- Converted a proprietary server from using MySQL to SQLite
- Built Web interface for MySQL database using Ajax
- Created a self-contained promotional app for iPod Touches with content (video, PDFs) customized for each recipient.
- Converted a Dreamweaver website to Drupal, with PHP extensions.
- Designed and coded an XML-based API regression test system (in Python)
- Helped put WFMU on the Internet, wrote many of its original web features like the Marathon pages, picture-of-the-day scheduler, quizzes, surveys, the WFMU Catalog, The Internet Museum of Flexi/Cardboard/Oddity Recordings, and DJ web pages and playlists. I also wrote their first iPhone apps. <http://www.wfmup.org> , Station Manager Ken Freedman mentions me in this article: <http://therumpus.net/2017/01/sound-vision-28-ken-freedman/>

Clients: Brand Expression, eSommelier, WFMU-FM, Game Face Web Design, Sustainable Hudson Valley, Ignite Sales, Black Coffee, CityMaps, Deep Listening Institute

Send Word Now Communications, Inc.
*Senior Programmer*_(2006-2008)

Send Word Now (<http://www.sendwordnow.com>) writes and maintains an online application that sends message as quickly and simultaneously as possible to a predetermined contact list via a number of media: voice, email and text messaging. The infrastructure is built on MSSQL, with a large number of Windows services and web services processing the requests and message I/O. The following work was done in C#, Java, PHP, and Python:

- Designed and wrote Windows services to process incoming events (specified as XML files) and turn them into messages on phone, email and SMS platforms using SendWordNow's internals. Wrote test procedures that simulated the triggering of these events. SWN calls this feature "Weather Blast."
- Designed and developed the UI interface that allows all the message transmission history of every message to be traced. SWN calls this feature "Alert Tracer."
- Designed the web service client that transmits messages via Blackberry PIN.
- Designed and implemented a Windows service which updates batches of contacts via XML files, and the test programs to create various kinds of batches.
- Re-engineered the email subsystem to add mail bounce processing and be able to be run on several servers. It also has a custom mail retry system that I designed. You can see some of my mail headers still if you subscribe to "Notify New York"
- Wrote a custom SMTP server that could produce SMTP errors and delays on demand, while not actually delivering messages, in order to test the system.

Cisco Systems (acquisition)

Weblin Communications (acquisition)

Ergotech/G2X

Senior Programmer

(1997-2003)

- Designed and wrote an email processing server that was integrated into a customer contact system. The email processor has a web interface with a custom server-side template engine. It transcodes incoming messages, and processes it through a rules engine, which can, among other things, feed the message into a group queue for an agent to respond to, automatically respond to the message, assign priorities, escalate priorities, and assign tracking numbers. The same program uses a web interface for acting as the agent's interface, acting as the administration interface, writing and editing the rule set, configuring the users and groups and many, many other things.
- This system was so interesting it was acquired (along with support staff) by Weblin Communications in July of 1999, which in turn was acquired by Cisco Systems in November 1999. Renamed "Cisco ICM Enterprise Edition, E-Mail Manager Option," the system was also internationalized, and can process international character sets in the incoming and outgoing messages. The interface supported English, French, Italian, Spanish, German, and Japanese.

The server which I designed, wrote and maintained was a C-based back end that communicates with a suite of Java programs which act as wrappers to the mail server, database servers, and other parts of the total customer support system. All programming was developed in accordance to Cisco's ISO 9001 standards.

This product is no longer being sold by Cisco, but you can read about it here: http://www.cisco.com/en/US/products/sw/custcosw/ps840/tsd_products_support_eol_series_home.html

The following copy of a White Paper will give you an idea of the scope of this product:

http://www.jhhl.net/Resumes/CEM_E-Mail_WP.html

While I wrote and designed a large part this part of this system, I am in no way a Cisco engineer anymore , and have no experience with any of their current products.

Self-Employed Consultant: Dot-Com era
(1993-1997)

- Created Internet software for STIM, WFMU, Information Builders, Taejon (Korea) Science Expo, and others. These projects involved interactive VRML modeling, animation, web-enabled Fax processing and distribution, catalog systems and other CGI processing.

Information Builders, Inc.

Programmer/Senior Programmer (1980-1993)

<http://www.informationbuilders.com>

- Designed and maintained parts of the business oriented "fourth generation" language FOCUS, including graphics, form entry systems, database maintenance language. I also was on the team that ported FOCUS to the Macintosh, which never was released.

EDUCATION

B.A. in Computer Science/English, Trinity College, Hartford, CT

SKILLS

C, C#, Objective C, Java, PHP, Perl, Python and many other languages on Mac OS X, iPhone, Windows 2000/XP, POSIX operating systems, IBM MVS and CMS, and other hardware and operating systems; "little languages," graphics, animation, audio, DSP, email, internationalization, custom servers, web services and web site design.

VOLUNTEER ACTIVITIES

Programming and web site development for numerous nonprofits and individual artists, including:

- Sustainable Hudson Valley (www.sustainhv.org),
- WFMU (www.WFMU.org),
- Experimental Musical Instruments Magazine,
- Experimental Intermedia Foundation,
- American Festival of Microtonal Music,
- Elodie Lauten (New York composer),
- Unitarian Universalist Congregation of the Catskills (UUCCKingston.org),
- Century House Historical Society

REFERENCES

Eric Grimmelmann, Chairman, Board of Directors, New York Technology Council, egrimmelmann@kosmosys.com, (212) 579-8990 (former CTO of Send Word Now)

Drew Allison, President, Brand Expression, drew@drew-allison.com, (617) 926-6478

Mitchell Orłowsky, President, Ignite Sales (also formerly of G2X and SendWordNow), mitchell.orłowsky@ignitesales.com, (214) 437-4212

Bill Malizia, former Medidata Product Manager for "Patient Cloud", wgmaliza@gmail.com , (215) 514-0576

INTERESTS

Electronic music composition, music performance (hammered dulcimer, autoharp, melodica), 2-D animation, sustainability, Mid-Hudson Valley