

C.M. Lubinski

Humble Hacker

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<http://cmlubinski.info>

Relevant Skills & Interests:

Web Development

Model-View-Controller
Static Site Generators & Caching
Content Management Systems

Natural Language Processing

Parsing & Formal Grammars
Search & Information Retrieval
Machine & Statistical Learning

Rapid, Stable Delivery

Cloud infrastructure/deployments
Unit Tests, Continuous Integrat'n
Release Early, Always Shipping

APIs & Data

RESTful clients & services
Relational & Document DBs
Search Indexes, Key-Value Stores

Geospatial/GIS

Slippy Maps, Interactive Displays
Geo-aware DBs, Frameworks
Importing Data (Census/ACS)

Teamwork

Agile, Open Source Development
Tight-knit Peers, Always Learning
Code Review via Pull Request

Recent Work History:

Innovation Specialist – 18f (General Services Administration)

Sept '14 – Present

Communicart: Web & email-based approval tracking. Ruby, Rails, Postgres, Cloud Foundry

Peace Corps Donations: CMS & payment collection. Python, Django, Postgres, JS & Grunt, SASS, AWS

- Helped navigate waterfall-only clients, agile developers, & research-oriented designers to project launches
- Researched, implemented, and expanded libraries for authorization, file uploads, caching, etc.
- Developed key features, e.g. payments, accounting sync, data encryption, & complexity-reducing refactors
- Interviewed candidates for technical work in the federal government; helped found 18f's Chicago office
- Shared code commentary, architecture analyses, post mortems, and hotfixes with peers around the country

Backend Developer – Consumer Financial Protection Bureau

Dec '12 – Sept '14

Mapusaurus: Slippy-map highlighting red-lining cases. Python, GeoDjango, PostGIS, Leaflet, Topo JSON

eRegulations: Regulation parser, compiler, and viewer. Python, Django, MySQL, Solr, Backbone

- Discovered structure, definitions, citations, & other data in messy XML; used to compile reg versions
- Combined and rendered census shapes and statistics with HMDA load records onto a slippy-map
- Served w/ a brilliant team; per-pull-request reviews; led the bureau in tests & CI; frequent design critiques
- Co-chaired Transparency group (1st tech article), heavily involved in Open Source (CFPB's top committer)

Chief Developer – Toodalu, LLC (acquired)

Aug '10 – Dec '12

APIs: Securely stored & served data; core business logic. Scala, Lift, REST, JSON, PostGIS, Mongo, Solr

Web UIs: Corresponding user, merchant, sales, & admin apps. Scala, Lift, Wordpress

- Led the majority of technology decisions, refactoring the code base through numerous, radical pivots
- Integrated third parties, such as credit card processors, cloud hosting, social networks, & push notifications
- Configured, maintained all associated servers, including continuous integration with black-box Python tests

Web Developer – Network Ninja, Inc.

Jun '08 – Aug '10

Legal Server: Client/document tracking for pro bono attorneys. Object-oriented PHP, Postgres

- Coordinated with project managers, kept accurate time estimates; improved and extended, pushing weekly
- Implemented unit-testing regime, preventing countless bugs; migrated to Trac from a custom ticket system

Formal Education:

DePaul University

Chicago, IL

MS, Computer Science (Theory), 2014 GPA 4.00

“Formalized Forensics”: Master's Thesis

Grinnell College

Grinnell, IA

BA, Computer Science (Honors), 2008 GPA 3.69

Dean's List, Honors Scholarship, ACM award, TA

Continued Education:

Online Courses (Coursera, Udacity, edX, Stanford, etc.)

AI, Bioinformatics, Crypto, Data Sci, Discrete Opt,
Formal Logic, ML, Network Analysis, NLP, & more

Informal (Conferences, Meetups, etc.)

Strange Loop, OSCON, Lambda Jam, Philly ETE

Self-study: books, podcasts, and a tendency to tinker

Other Points of Pride:

Presentations about security, static sites, team morale, and more at conferences, meetups, & work

Articles ranging from parsing, constraint programming, Vim, trade-offs, to verifiable forensics (CSF '14)

Contributions upstream, with patches/plugins/discussions to Vim, Trac, Dispatch, various Django libraries

Open Source personal projects for mixing podcasts, classifying news, a static personal site, web scrapers, etc.

Purpose matters. Apps for pro bono attorneys, charities, regulators, Peace Corps volunteers, and do-gooders