C.M. Lubinski
Humble Hacker

cm.lubinski@gmail.com - 872.333.9262
Pittsburgh, PA 15203
http://cmlubinski.info

Relevant Skills & Interests:

Web Development	Natural Language Processing	Rapid, Stable Delivery
Model-View-Controller	Parsing & Formal Grammars	Cloud infrastructure/deployments
Static Site Generators	Search & Information Retrieval	Unit Tests, Continuous Integration
Content Management Systems	Machine & Statistical Learning	Release Early, Always Shipping
APIs & Data	Geospatial/GIS	Teamwork
RESTful clients & services	Slippy Maps, Interactive Displays	Agile, Open Source Development
Relational & Document DBs	Geo-aware DBs, Frameworks	Tight-knit Peers, Always Learning
Search Key-Value Stores	Importing Data (Census/ACS)	Code Review via Pull Requests

---

Recent Work History:

Innovation Specialist　　　　　*18F (General Services Administration)*　　　　　*Sep '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 - Sep '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 - Nov '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

---

Education & Academic Experience:

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, 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, 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