

C.M. Lubinski

Humble Hacker

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Pertinent Skill Sets:

Programming and Scripting:

Server-Side: Scala, Python, PHP, Java, SQL

Client-Side: Javascript, JSON, (X)HTML, CSS

Communication: REST, AJAX, JSON, XML, RSS

Libraries: Lift, Dispatch, Bouncy Castle, Rogue,

Apache Commons; jQuery (+ plugins), Google Maps;

PHPUnit; App Engine, pycopg, unittest

APIs: OAuth2, FB Connect, Rackspace, REST services

Platforms/Tools:

• Linux (Debian, Ubuntu), Mac OS X, Windows

• ViM, Eclipse, svn, git, sbt, Gnu utils (grep, screen, etc.)

• Postgres, PostGIS, Mongo, Solr, Apache, Lighttpd, Tomcat

Winning Style:

• Develops prototypes rapidly, while planning for future scale

• Seeks out existing solutions before beginning from scratch

• Bakes in security, stability, and scalability from the start

• Works well with teams; loves to learn from others

Relevant Work History:

Chief Developer – [Toodalu, LLC](#) – Summer '10 – Present

Toodalu: charity-driven rewards network

- Led the majority of technology decisions, such as application stacks, server security, and communication protocols
- Designed & developed RESTful JSON web services (Scala+Lift) for user-, merchant-, sales-, and admin- facing apps
- Wrote several consumers for these services, including web interfaces (jQuery+CSS+XHTML) and unit tests (Python)
- Integrated multiple third parties, including credit card processors, cloud hosting, social networks, & push notifications
- Configured and maintained all associated servers (Debian, Tomcat, Postgres, MongoDB, Nginx, Wordpress, Solr)
- Implemented programs to handle routine operations (e.g. data rotation,) migrating databases, resizing photos, etc.

Web Developer – [Network Ninja, Inc.](#) – Summer '08 – Summer '10

Legal Server: webapp for pro bono attorneys

- Designed and developed (object-oriented PHP) new features while improving existing code, pushing updates weekly
- Coordinated with project managers, kept accurate time estimates, and made decisions based on project priority
- Implemented an automated, PHPUnit-based testing regime; wrote >100 tests, preventing countless bugs
- Researched, configured, extended, and wrote (where needed) plugins for Trac, a Python ticket management system
- Migrated operations from a custom ticketing solution to Trac, greatly improving management efficiency
- Created web services for Legal Server to speak with Trac and a Drupal-based documentation site via XML-RPC

Google's "Summer of Code" Intern – Google, Inc. – Summer '07

ViM: open source text-editor of great note

- Debugged and enhanced ViM with gdb, programming in C; released over a dozen official patches

App Developer – Grinnell College IT Services – Spring '07 – Spring '08

TCDB: timekeeping & admin tool for staff

- Extended and maintained code (PHP + MySQL,) creating new features based directly on user and admin feedback
- Maintained server, including migrating from CentOS to Debian and preventing downloads for non-local users

Education:

DePaul University, Chicago, Illinois

MS, Computer Science (Theory, Security), 2014 GPA 4.00

Relevant Topics: Type Theory, Network & Distributed Sys, Complexity, Cryptography, Software Eng., Research Topics

Major Projects: A mobile, intelligent agent; network play added to a multiplayer game; an extendable card game sim

Grinnell College, Grinnell, Iowa

BA, Computer Science with Honors, May 2008 GPA 3.69

Relevant Topics: Data Structures, Algorithms, Language Design, OS & Parallel Algorithms, Networks, Automata, HCI

Honors: Dean's List; Trustee Honors Scholarship; Chad Zinn Outstanding Helpdesk Award;

ACM [Award of Excellence](#); Participation in ACM Regional Programming Contest and Putnam Exam

Extracurriculars: Student Ed. Policy Committee; ACM Member; Problem Solving; Satirical Newspaper ([B&S](#)) writer

Other Impact: Gave two [Department Seminars](#); wrote [two tutorials](#) still given to students by the faculty; served as TA

Additional Development

Courses: Cryptography, Machine Learning (Octave) via [Coursera](#); Applied Cryptography via [Udacity](#)

Self-study: With current books, papers, podcasts, conferences, and a tendency to tinker with the latest tech

Groups: ACM, Chicago Area Scala Enthusiasts, and others (software eng., web development, security, etc.)

Presentations: Local conferences and user groups ([web services](#), [PHP 5.3](#), [security](#), [cryptography](#), and [more](#))

Personal Projects:

Patches/Plugins for ViM (text editor), Trac (ticketing system), Dispatch (HTTP lib), WordPress (blogging), and Lift (web framework)

FragSpace, a service to create game servers on the fly; building with Go and App Engine; an OAuth server

Python projects including *FillMyPod* (podcast mixer,)

PipesUtils (App Engine filter for Yahoo Pipes,) and

HackBase (Django + App Engine journalist database)

PHP projects: Drupal vanity [website](#) and *NYTGrabber*, a tool used in Anthropology research to help analyze use of Arabic words in print media