

C.M. Lubinski

Hacker with Humble Heart Seeks New Home

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Objective: To develop the most effective web services available using cutting edge technologies

Pertinent Skill Sets:

Programming and Scripting:

Server-Side: Scala, Python, PHP, Java, SQL, Scheme, C/C++, Bash Scripting

Client-Side: Javascript, AJAX/AHAH, JSON, CSS, (X)HTML, XML, RSS, XML-RPC, SOAP, REST

Libraries: PHPUnit, jQuery, Prototype, PEAR/PECL

Frameworks: Lift, Drupal, Trac, Akka, App Engine

Styles: Functional, Object-Oriented, Aspect-Oriented, Imperative, Declarative, Actor/Queue-Based

Platforms/Tools:

- Linux (Debian, Ubuntu, Redhat), Mac OS X, Windows
- ViM, Eclipse, Subversion, git, gcc, Unix utils (grep, etc.)
- PostgreSQL, MySQL, MongoDB, Apache, Lighttpd, Tomcat

Communication:

- Provides clear explanations both verbally and in writing
 - Discusses design w/ team, reusing existing infrastructures
 - Perfects projects with tight, feedback-focused cycles
 - Documents code with the Doxygen/JavaDoc standard
 - Assists Trac and Drupal users via mailing-list and IRC
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Relevant Work History:

Chief Developer – Toodalu, LLC (**Remote**) – *Summer '10 – Present*

Toodalu, Scala+Lift+pgSQL+MongoDB (Web Services), Location-based, Social, iPhone App:

- Wrote a complete set of JSON RESTful web services to specification, focusing on **security, stability, and scalability**
- Developed a full test suite (Python), an XHTML front-end (Lift + Dispatch), and complete set of documentation
- Created additional interfaces to firewall access to critical functionality; authenticated using AES encryption of nonces
- Managed all associated servers: allocation, configuration (Tomcat, Postgres/PostGIS, MongoDB) and maintenance

Web Developer – Network Ninja, Inc. – *Summer '08 – Summer '10*

Legal Server, Object-Oriented PHP+pgSQL+Prototype, >1000 Daily Users, Web-App to Manage Pro Bono Attorneys:

- Designed and developed new modules while improving existing ones with >4000 commits, **pushing updates weekly**
- Coordinated with project managers via accurate time estimates and discussions regarding 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
- Created web services for Legal Server to speak with Trac and a Drupal-based documentation site via XML-RPC

Google's "Summer of Code" Software Engineer – Google, Inc. – *Summer '07*

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

Technology Consultant Database Developer – Grinnell College IT Services – *Spring '07 – Spring '08*

TCDB, PHP+MySQL, >30 Daily Users, Timekeeping and Administrative Tool for Student Staff:

- Extended and maintained code and server, creating new features based directly on user and administrative feedback
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Education:

DePaul University, Chicago, Illinois

Master of Science, Computer Science, Expected 2014

In Progress: Began Spring 2010 with a likely concentration in Software Engineering and/or Theory

Relevant Topics: Parsers and Interpreters, Compilers, Programming Language Concepts, Object-Oriented Engineering

Grinnell College, Grinnell, Iowa

Bachelor of Arts, Computer Science with Honors, May 2008

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

Grinnell Honors: GPA: 3.69; Dean's List; Trustee Honors Scholarship; Chad Zinn Outstanding Helpdesk Award

External Honors: ACM Award of Excellence (for TCDB); High Placement in ACM Contest and Putnam Exam

Relevant Organizations: CS Student Education Policy Committee; ACM Student Member; Problem Solving Seminar

Other Impact: Gave two Department Seminars; Wrote two tutorials still given to students by the faculty; Served as TA

Continuing Education

Informal: Avid reader of technical books (O'Reilly, Apress, etc.); Listens to audio lectures (UC Berkely, MIT, etc.) and educational podcasts; Attends (and presents at) local public lectures and conferences (Flourish, Drupal Camp, etc.)

Organizations: Focusing on Scala, Python, Programming Languages, Drupal, and Web Development

Participation: Presented at Drupal Camp Chicago (Web Services in '09, PHP 5.3 in '10) and at local user groups (ViM, logging with Lift+MongoDB); contributed code to the Trac and ViM projects; assists Drupal, Lift, and Trac users

Additional Projects:

CloudAlways, Python: Google App Engine, JSON, RESTful database with arbitrary object schema

NYTGrabber, PHP: tool used in Anthropology research to help analyze use of Arabic words in print media

FromUndo, Scala + Swing: a GUI todo program; Actor-based design; plans to speak with a server via REST

FillMyPod, Python + Django: Google App Engine podcast mixer, written with Test-Driven Development; parses multiple RSS/ Atom feeds to generate each mix