

Martin Petrov

Technical Skills

- operating systems** Mac OS X, Linux, Windows, iPhone, Solaris
- programming languages** C, C++, Java, Objective-C, Ruby
Assembly (x86, ARM, Java), Erlang, Python
- web and markup** Ruby on Rails, PHP
CSS, (X)HTML, JavaScript, XML
- databases** ActiveRecord, MySQL, SQLite
- gui toolkits** Cocoa/UIKit, AWT/Swing, SWT, MFC
- graphics** Photoshop, OpenGL, Magick
- profiling and debugging** GDB, Instruments, Shark
- documentation** LaTeX, Doxygen, JavaDoc, RDoc
- languages** Bulgarian, French

Education & Course Work

B.S. in Computer Science, University of Maryland

Anticipated Date of Graduation: 2011 GPA: 3.50 Major GPA: 3.86

- computer science** Bioinformatics, Computer Organization,
Data Structures, Algorithms,
TA for Object Oriented Programming II
- mathematics** Abstract Algebra, Linear Algebra, Differential
Equations, Transform Methods, MV Calculus

International Baccalaureate Diploma

Graduated in 2008 from Richard Montgomery High School.

Experience

Research, Mechanical Engineering, UMD

Jan. 2009 - Present

- Refactored existing C++ code.
- Created Java and OpenGL visualizations
- Wrote code to track and estimate the positions of objects using stereo computer vision
- Developed project lifecycle tools
- Optimized and wrote computational geometry algorithms
- Designed and implemented MFC interfaces for Win32, as well as Rails based web interfaces

Other Endeavors

2008 - Present

- Member of the UMD **Cyber Security Club**, head of the UNIX hardening team.
- Freelance web design, former webmaster of serveitup.org
- Created an implementation of the XMPP protocol in Objective-C. Uses libxml2 and openssl for parsing encrypted XML streams.