

# Alex Florescu

alex@florescu.org

## Qualifications

*Proficient:* Java, Eclipse, Mercurial, Pascal

*Exposure:* C, Visual C++, PHP, MySQL, XML, lex & yacc

*OS:* Windows, Linux, Android

*Spoken Languages:* Romanian (fluent), English (fluent), French (novice)

## Experience

### George Washington University

Washington, DC

*Graduate Teaching Assistant*

**September 2010 (current)**

Develop and conduct weekly labs for CS 1010: Computer Science Orientation (first year students work in teams on programming Lego Mindstorms robots using a Java API) and CS 2441W: Database Systems and Team Projects (second year students work in teams on developing a semester-long web & database project using PHP and MySQL). Requires precise communication of fundamental programming and teamwork concepts to students with no previous experience, as well as a good knowledge of programming, databases and basic project management.

### George Washington University

Washington, DC

*Programming Coach*

**September 2008 (current)**

Coach the university's teams for the ACM International Collegiate Programming Contest. Conduct weekly classes covering theoretical concepts as well as their practical application to the the competition and proper team management. Requires good knowledge of algorithms, data structures, as well as teamwork skills and competition experience.

### George Washington University

Washington, DC

*Research Assistant*

**June 2009 – May 2010**

Designed and implemented an electronic voter-verifiable voting protocol with an accessible interface (Java, XML, Android). Mentored a small team of undergraduate students working on development and testing. Required good knowledge of cryptographic primitives, discrete mathematics and programming.

### George Washington University

Washington, DC

*Senior Computer Technician*

**December 2006 – May 2009**

Provided technical support over the phone and in person for software, hardware and network issues. Required good knowledge of common operating systems and networks, as well as solid communication skills.

### AOL LLC

Dulles, VA

*Technology Intern*

**Summer 2008**

Fixed bugs in the back-end libraries of the AIM client (Visual C++), worked on new connectivity functionality for AIM and ICQ, designed and developed AIM plug-ins for use with social networks and contributed to the developer website (PHP, Ajax) with a script to facilitate writing AIM plug-ins.

## Education

*Master of Science in Computer Science*, May 2011

George Washington University. Washington, DC

Research Advisor: Professor Poorvi L. Vora

GPA 4.0 (100%)

*Bachelor of Science in Computer Science*, May 2010

George Washington University. Washington, DC

*Magna Cum Laude*

GPA 3.73 (93%)

<b>Research/ Projects</b>	<p><b>Secure data mining with social networks</b> <span style="float: right;"><b>September 2010 - present</b></span>          Design and implement an application that would enable users to create and deploy surveys through a social network while maintaining the privacy of the answers in the survey, without requiring a trusted third party.</p> <p><b>eTegrity: verifiable electronic voting</b> <span style="float: right;"><b>June 2009 - May 2010</b></span>          Designed and implemented (Java, XML, Android) a voter-verifiable voting protocol that is completely electronic; the system uses two electronic terminals and provides an accessible audio and visual user interface.</p> <p><b>Accessible Voting Interface</b> <span style="float: right;"><b>Summer 2009</b></span>          Designed and implemented (Java, XML) an accessible audio and visual voting interface, based on an Interactive Voice Control Model. It is being tested for possible use with Scantegrity in a municipal election in 2011.</p>														
<b>Publications</b>	David Chaum, Alex Florescu, Mridul Nandi, Stefan Popoveniuc, Jan Rubio, Poorvi L. Vora, Filip Zagórski. <b>Paperless Independently-Verifiable Voting.</b> <i>In review</i>														
<b>Presentations</b>	Alex Florescu, Stefan Popoveniuc, Poorvi L. Vora. <b>Accessible Voting Interface Using an Interactive Voice System Model,</b> <i>Argonne Undergraduate Symposium.</i> Argonne National Laboratory, Chicago, IL. November 13th 2009														
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<b>Citizenship</b>	Romanian														