

# William E. J. Doane PhD

## Information & Computer Sciences

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# Domain

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	<i>Mode</i>	<i>Bloom's Taxonomy</i>	<i>Enduring Question</i>	<b>Computer</b>	<u>Computation</u>	<b>Librarianship</b>	<b>Education</b>
<b>Literacy</b>	Use	Knowledge Comprehension	How do I...? What can I do with...?	User		Patron	Student
<b>Technician</b>	Build Maintain	Application	How do I build...? How do I maintain...?	IT		Librarian	Teacher
<b>Management</b>	Allocate	Analysis	How will we distribute...? How will we control use of...?	ITM		Director	Superintendent Principal
<b>Policy</b>	Regulate	Analysis	How should we control...? How should we utilize...?	IEEE			School Board
<b>Engineering or Architecture</b>	Design	Analysis	How can we use what we know about...?				Curriculum or Assessment specialist
<b>Human Factors Science</b>	Design Investigate	Analysis Synthesis Evaluation	How does this relate to...? What are the boundaries of...?		Algorithms AI		Educational Researcher
<b>Ethics</b>		Evaluation	What is the right thing to do with...?				
<b>Philosophy</b>		Evaluation	What is the nature of...?				Dewey
<b>History</b>		Synthesis?	What has been done with...?				

What should undergraduate and master's students do during school to prepare for a successful research career?

- Learn how to ask good research questions
- Find opportunities to participate in research and make your career goals known
- Remember that course syllabi are the LOWER limit on what you must do to pass a course, not the upper limit

What are specific tasks and activities that prepare you to apply for entry level job postings that require more skill sets and years of experience than you have?

- Read books/papers both (a) current and (b) foundational in your field.
- Join your professional organizations as a student member
  - gives you access to career resources, papers, conferences, etc. so you know what the people in your field are talking about
- Communicate with people in the field and ask them directly how you could get more experience.

How do you acquire specific skills for special software or subjects that aren't taught in school and that you can't find an internship for, but need for your career?

- Most businesses are sensitive to this and have some form of training period where you'll be allowed to get up to speed on the tools they use.
- Ask to talk to someone working with the software/subject.
- Find manuals and user forums online

What are the key job skills that you needed that went beyond the standard (i.e. good communication skills) that no person or job description mentioned?

- Appropriate and good sense of humor
  - people interviewing you want to know whether you'll fit into their culture
- Excellent *writing* skills – be an editor
  - Don't use \$5 words when plain English will do
  - Be direct: make a claim and then support it
- Avoid interpersonal dynamics
  - Never speak poorly of past experiences
  - Every experience is a *learning* experience, so what did you learn from it?

How would you suggest students go about networking in the field when they don't have access to conferences or other similar events?

- There are always conferences, big and small.

NTIR

CCSC

SIGCSE

SIGGRAPH

BarCamp

Tech Valley Code Camp

NYLA

CASDA

ASIS&T

- Most confs. accept student volunteers (covers or offsets the cost of attending)
- Some offer scholarships – apply for them

# User Groups

Tech Valley Ruby Brigade	<a href="http://techvalleyrb.org">techvalleyrb.org</a>
Tech Valley .NET User Group	<a href="http://tvug.net">tvug.net</a>
Capital District Java Developers Network	<a href="http://cdjdn.com">cdjdn.com</a>
Cold Fusion User Group	<a href="http://anycfug.org">anycfug.org</a>
Capital District Computer Enthusiasts	<a href="http://cdceny.org">cdceny.org</a>
Capital District Oracle User Group	<a href="http://cdoug.org">cdoug.org</a>
Capital District WebSphere Users Group	<a href="http://nycdweb.org">nycdweb.org</a>



# Professional Organizations

American Association for Information Science and Technology	<a href="http://asis.org">asis.org</a>
Association for Computing Machinery	<a href="http://acm.org">acm.org</a>
Society for Technical Communication	<a href="http://stc.org">stc.org</a>
American Library Association	<a href="http://ala.org">ala.org</a>

# Resources

UAlbany Career Services	<a href="http://albany.edu/cdc">albany.edu/cdc</a>
Bureau of Labor Statistics	<a href="http://bls.gov">bls.gov</a>
Monster.com	<a href="http://monster.com">monster.com</a>
Craigslist can be useful for job seeking and apartment hunting	<a href="http://craigslist.org">craigslist.org</a>

# Interviewing

- Know the company
  - Shows interest and engagement
  - Shows your ability to do research
- Arrive early & know where you're going
- Dress the part
- Ask questions
  - You're interviewing them as much as they are you
- Avoid asking about compensation/benefits