

Matt Forbes

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OBJECTIVE	An internship or full-time position during the summer of 2012 focusing on solving computationally challenging science/engineering problems.	
EDUCATION	<i>Bachelor of Science</i> , Western Washington University, Bellingham, WA, expected Winter 2012 Major: Computer Science Major: Mathematics Minor: Physics	
COMPUTER SKILLS	<i>Languages & Software:</i> Mathematica, MatLab, C, C++, C#, Python, Common Lisp, Haskell, <i>Frameworks:</i> Django, ASP.NET. <i>Operating Systems:</i> Linux, Unix, Windows.	
EXPERIENCE	<i>Research Assistant</i> Western Washington University, Mathematics Department	Fall 2011 to Present
	<ul style="list-style-type: none">• Continue existing work in the field of geometric tomography using MatLab.• Coding an algorithm that uses noisy measurements of the mod square of the fourier transform of a characteristic function of a polytope to construct an estimation of a source polytope.	
	<i>Research Assistant</i> Western Washington University, Advanced Materials Science/Engineering	Summer 2011
	<ul style="list-style-type: none">• Support development of a Monte Carlo simulation modeling the interaction of photons within a Luminescent Solar Concentrator (LSC)• Completely refactor existing Mathematica project in to a modular, easily extensible form.• Implement a model for photon scattering due to imperfections in the LSC materials.• Present my work to a team of chemists, biologists, and mathematicians working on physical aspects of the project.	
	<i>AI Independent Study</i> Western Washington University, Computer Science Department	Winter 2010
	<ul style="list-style-type: none">• Learning and implementing techniques that are important to the field of AI, such as searching, knowledge representation, bayesian and neural networks.• Working with graduate advisor Jianna Zhang who has been influential in machine learning.	
	<i>Associate Programmer</i> Center for Instructional Innovation and Assessment, Western Washington University	Spring 2010-Summer 2011
	<ul style="list-style-type: none">• Design and build web and offline applications tailored to the specific needs of courses.• Maintain and construct software under strict time constraints both as a team and independently.	

Teaching Assistant Fall 2009-Spring 2010
Western Washington University, Computer Science Department

- Cemented student understanding by walking them through projects relating to their course.
- Communicated ideas that are not straightforward or easy to understand.

Freelance Web Developer Intermittently 2008-Present
Home

- Produced quality web components under short time constraints.

EXTRA-CURRICULAR ACTIVITIES

Participation in 2011-2012 AI challenge sponsored by Google.
Elected *Treasurer*, ACM, WWU Chapter.
Maintain linux servers for personal and production use.
Actively learn new programming languages and techniques.

REFERENCES

Stephen McDowall, Ph.D. *Associate Professor*
Western Washington University, Math. Department

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Richard Gardner, Ph.D. *Professor*
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