

MICHAEL DEROCHE

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OBJECTIVE

Seeking employment as a software engineer with a focus on web development, working with JavaScript, AngularJS, Node, and other modern web development technologies and practices.

EDUCATION

Bachelor of Science in *Computer Science*, concentration in *Artificial Intelligence*
University of Massachusetts Amherst

WORK EXPERIENCE

- Senior Software Engineer* EMC² Corporation, Hopkinton, MA 2012 - Current
- Worked on a full-stack web application to aggregate and display information about storage arrays across datacenters.
 - Exposed a RESTful API service that sat on top of a complex data crawler built with Perl, Redis, Python, and Node.
 - Created a proof-of-concept for a user-customizable intranet portal planned to be scaled out to thousands of engineers.
 - Created a personnel headcount application currently being used by thousands as the system to hire employees and manage hiring requests.
- REU / Student Researcher* UMass LASER, Amherst, MA 2012 - 2013
(Laboratory for Advanced Software Engineering Research)
- Created a UI for an application designed for medical professionals carrying out complicated procedures.
 - Enabled doctors and nurses to have a visual guide to the steps of the current operation, including what has been done and what is coming ahead.
 - Used Google Web Toolkit (Java) with JavaScript to create a dynamic user experience driven by a custom underlying process engine.
- Web Analyst* MassMutual Financial Group, Springfield, MA 2008
- Participated in the development of a mobile application designed to track retirement funds.
 - Created Excel programs in VBA to easily bootstrap data into retirement applications.
 - Participated in and collected data (such as mouse clicks and eye movements) from usability studies for an internally used website.
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SKILLS AND PROFICIENCIES

Key Concepts:

- Usability
- User interface / user experience
- Object-oriented programming
- Mastery of JavaScript
- Prototypal inheritance
- Test automation
- Agile methodology

Languages: JavaScript, XHTML, CSS (Sass), PHP, Java, Perl, NodeJS

Development Tools: Bower, Grunt, NPM, Karma, PhantomJS, Logstash, Jenkins CI, Yeoman

Databases: MySQL, PostgreSQL, Redis

Frameworks: AngularJS, jQuery, jQuery Ui, Bootstrap

Operating Systems: Windows, Linux

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AWARDS AND ACHIEVEMENTS

- “*Far Exceeds*” performance review: *Awarded Winter 2015*
“Expert in the UI and user experience field”, “Willingness to go the extra mile”,
“Far exceeds goals in all areas”, “Recognized by all as an expert”
- *Platinum award for innovation*—highest level of award granted at EMC² *Awarded Winter 2015*
For the continued development of a proof-of-concept dynamic intranet web portal
meant to be scaled out to thousands of engineers.
- *Silver award for innovation* *Awarded Fall 2014*
“In 2 weeks Michael was able to produce a very interactive mockup demo
with very little guidance that really excited the intended audience [of an intranet portal].”
- *Course citation, CS320—Software Engineering:* *Awarded Spring 2012*
“For extraordinary adaptability and rising to the challenge of
leading [the class] to the successful realization of the [application].”
- 1st Place, *Programming Competition - sponsored by Microsoft* *Awarded Spring 2008*
Several difficult programming problems were presented to multiple teams in
a time-constrained competition. The team who solved the most problems
in the allotted time was declared the winner.
- 1st Place, *Programming Competition - sponsored by Microsoft* *Awarded Spring 2007*