Adam Riggall

Software Engineer

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Highly-motivated engineer with a broad skill set, eager to make an
impact developing well-tested, performant software, while
optimizing developer productivity and software delivery

SKILLS

Languages	Java, Python, R, Matlab, LaTeX	**JavaScript**	Node.js, D3.js, Browserify
Web	HTML5/CSS3, RESTful APIs	**Dev Tools**	Grunt, Gradle, Git, Vim
Dev Ops	Jenkins, Puppet, Vagrant, TeamCity	**Platforms**	Linux (RedHat, Ubuntu), OS X, Amazon EC2
Analytics	Statistics, Machine Learning, A/B Testing	**Data Storage**	Amazon S3, MySQL, PostreSQL

EDUCATION

Ph.D **University of Wisconsin-Madison**, 2014.
Psychology (Cognitive Neuroscience Focus)
Dissertation: The neural underpinnings of short-term memory for visual motion

BA **Dartmouth College**, 2006.
Psychology and Brain Sciences Major
Significant additional coursework in Computer Science and Engineering

EXPERIENCE

2015- **Senior Software Engineer**, *Nike*, Beaverton, OR.
- Developing Java microservices to support new experiences
- Supporting continuous delivery pipeline to AWS

'14–15 **JavaScript Engineer (Under contract at Nike)**, *Mainz Brady Group*, Portland, OR.
- Member of small, agile team that developed a JavaScript library to power a new production customization experience
- Acted as interim Tech Lead (2 months) to support and evolve the library after the initial launch in production
- Setup and maintained a Jenkins continuous-integration server with HipChat integration and continuous deployment to test environment

2014 **Postdoctoral Research Associate**, *Postle Lab*, University of Wisconsin-Madison.
- Built interactive, web-based visualizations (d3.js) for exploring neuroimaging results and drawing new insights and conclusions
- Developed machine-learning methods to explore large-scale neuroimaging data
- Led research team investigating the neural basis of short-term memory

2009–14

System Administrator, *Postle Lab*, University of Wisconsin-Madison.

- Maintained, supported, and upgraded laboratory analysis cluster (Linux: Ubuntu and RedHat) and networked workstations (OS X)
- Implemented redundant data storage and automated tape backup solution, insuring the integrity of collected data (Bacula)
- Converted static laboratory website with outdated design to dynamic, CMS-powered site (Concrete 5, PHP) with fully responsive, Bootstrap-based design

2009–14

Graduate Research Assistant, *Postle Lab*, University of Wisconsin-Madison.

- Created analysis pipeline in Python to automate neuroimaging analyses, now used by all member of the lab to increase analysis throughput and reduce errors
- Applied novel machine-learning approaches to brain data (fMRI) to understand the evolution of short-term memory representations in the brain
- Presented research findings at international conferences

2006–09

Lab Manager/Research Assistant, *Curtis Lab*, New York University.

- Maintained and supported laboratory analysis network consisting of a single server (OS X Server) and numerous workstations (OS X/Windows)
- Coordinated finances, IRB experimental design approval, subject recruitment, meetings, and project- support laboratory wide
- Developed machine-learning approaches to discover generalized brain activity across cognitive domains, resulting in a high-profile scientific publication

2005–06

Research Assistant, *fMRI Data Center/Gazzaniga Lab*, Dartmouth College.

- Automated analyses of brain connectivity using Bayesian approaches with diffusion weighted neuroimaging data, which resulted in a peer-reviewed publication
- Helped author new chapter and significantly update other chapters for the revised edition of a widely used undergraduate Cognitive Neuroscience textbook
- Created CGI animations of brain activity for use in an IMAX film about how the brain empowers elite athletes: *Wired to Win: Surviving the Tour de France*.

2004

Sales & Service Associate, *Computer Renaissance*, Centennial, CO.

- Developed customized IT solutions for individuals and small businesses
- Provided individualized support and software training

2003

Summer Intern, *Great West Life*, Greenwood Village, CO.

- Designed and implemented database to automatically track software licensing contracts division wide in Microsoft Access with VBA