Tyler Lemburg

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Current position

M.S. student, Meteorology/Climatology, University of Nebraska–Lincoln, Lincoln, NE
- Focus in climate modeling

Education

2015-2017 Visiting Student in Meteorology/Climatology, University of Nebraska–Lincoln, Lincoln, NE
- 16 credits of 300-400 level meteorology classes

2006-2011 B.S. in Mathematics with Honors, University of Nebraska–Lincoln, Lincoln, NE
- Thesis title: *Techniques in Integer Partitions*
- Notable coursework: 2 years chemistry, 1 year honors physics

2002-2006 Chadron State College, Chadron, NE
- 4 years college mathematics (distance learning) while in high school

Research experience

2009-2011 UNL Undergraduate Creative Activities and Research Experience Grant, Lincoln, NE.
- Research in integer partitions and modular forms under Dr. Jamie Radcliffe

2009 Summer Clemson University Mathematics REU, Clemson, SC.
- Research in combinatorics under Dr. Neil Caplan, with Scott Atkinson, Jeff Beyerl, and Jeannette Brown

2007 Summer Trinity University Mathematics REU, San Antonio, TX.
- Research in numerical monoids under Dr. Scott Chapman, with Nathan Kaplan, Andrew Niles, and Chrissy Zlogar

Publications & talks

Journal articles

2014 S. Chapman, N. Kaplan, T. Lemburg, A. Niles, and C. Zlogar. Shifts of generators and delta sets of numerical monoids. International Journal of Algebra and Computation, Vol 24, No. 5 (2014)

2008	AMS-MAA Joint Math Meetings, 'Shifts of Generators and Delta Sets of Numerical Monoids', San Diego, CA
2007	Young Mathematician's Conference, Ohio State University, 'Numerical Monoids: Shifting Generators and Delta Sets', Columbus, OH

Teaching experience

2007-2011	Undergraduate Teaching Assistant/Grader, University of Nebraska–Lincoln - Taught and graded Honors Calculus I, II, and III, and graded Introduction to Modern Algebra

Honors & awards

2012-2013	University of Nebraska Young Alumni Academy
2010	ACM-ICPC Computer Programming Contest, Honorable Mention, World Finals
2009	ACM-ICPC Computer Programming Contest, 2nd Place, North Central Regionals
2009	ACM-ICPC Computer Programming Contest, Honorable Mention, World Finals
2008	ACM-ICPC Computer Programming Contest, 1st Place, North Central Regionals
2006	UNL Eastman Math Scholar
2006	National Merit Scholar
2005	UNL Math Day, 1st Place Class B Math Bowl, 4th Place individual
2005	American Legion Eagle Scout of the Year
2005	Eagle Scout

Involvement

2013-2016	Bold Nebraska
2013-2016	350.org
2013	Climate Reality Leader
2009-2011	University of Nebraska Honors Program Student Advisory Board, Vice-President 2010
2009-2011	Lied Center Student Advisory Board
2007-2011	Pi Mu Epsilon (National Mathematics Honorary), President 2011

Employment History

2015-current	Senior Web Applications Engineer, University of Nebraska–Lincoln, Lincoln, NE - Manager and lead developer for several campus-wide services including UNL Events calendar, UNL Lockup Factory, UNL Resource Scheduler - Provide developer support for these and other applications - Contribute to UNL's award-winning web framework, encompassing all university websites into one look and feel
2014	Senior Web Developer, Archrival, Lincoln, NE - Built Adidas Playbook, a tool for Adidas field agents to schedule store visits, file reports, and collaborate

- Implemented and managed site search (via ElasticSearch and Lucene) on several site forums, blogs, and archives
- Worked with designers to prototype and build responsive web experiences for clients

2013-2014   Senior Software Engineer, Firespring, Lincoln, NE
- Lead developer for PaymentSpring, a user-friendly payment processing gateway
- Programmed core features including recurring billing system, PCI compliance, and online receipt management
- Managed development priorities, testing practices, and quality assurance
- Provided support for developers utilizing our API

2011-2013   Software Engineer, Firespring, Lincoln, NE
- Managed website for St. Baldrick's Foundation, a non-profit raising money for childhood cancer research
- Developed Ruby API for mobile apps, managed PHP/Apache server architecture, and created responsive design for website raising over $33 million per year
- Improved donation processes and user experience to raise donations by over $5 million each year
- Integrated Facebook and Twitter to drive social media exposure

2011   Robot Designer, University of Nebraska-Lincoln, Lincoln, NE
- Worked with robotics professor Dr. Carrick Detweiler to help set up robotics course
- Designed API for small hovercraft using Robot Operating System and C++
- Programmed intelligence and control for hovercraft using X-Box 360 controller and onboard gyroscope

2010   Web Programmer, VMInnovations.com, Lincoln, NE
- Upgraded and maintained intranet website for fast-growing eBay company using Visual Basic.NET, JavaScript, and AJAX
- Provided internal tech support and improved ChatNow, a tool allowing customer service to chat with users through company website
- Managed and integrated Google AdWords for online sales, and implemented search engine optimization

2008   Programming Intern, Hudl, Lincoln, NE
- Created features for Hudl Pro, a video and playbook management software for college and professional football teams
- Wrote code in Visual C#.NET and did quality assurance