# Nicholas G. Neumann-Chun

*Full-Stack JavaScript Developer; Mathematician with a degree from Williams College*


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**COMPUTER**

**Skills:** Node, AngularJS, Express, MongoDB, JavaScript, jQuery, Gulp, Git, LaTeX

**Exposure:** Java, Python, Scala, Mathematica, ReactJS, Flux, GraphQL, Relay, Firebase, jspm, Webpack, Mocha, Passport, Heroku, Bootstrap, Foundation

**EXPERIENCE**

**Full-Stack Developer and Code Mentor**, Coding House *since January 2016*

- Worked in teams creating full-stack JavaScript apps
- Mentored students on topics including Git and all MEAN technologies
- Reviewed, graded, and provided feedback on student projects

**Math & Physics Teaching Assistant** *2009-2013*

- While a student at Williams College
- As a TA for various classes, held weekly workshops and graded homework
- Tutored students one-on-one

**COOL PROJECTS**

**Green it!** – http://paulgoblin.github.io/greenit-frontend

- A Reddit-inspired app built with ReactJS and MongoDB

**Friend Finder** – http://young-favorite-users.herokuapp.com

- A Facebook-inspired, full-stack MEAN app hacked together in less than a week

**Errand Optimizer** – http://babelthuap.github.io/errand-optimizer

- Uses a brute-force solution to the traveling salesman problem

**VOLUNTEER**

**Centro de Textiles Tradicionales del Cusco**, Peru *2015*

- English tutor & Technology handyman

**LANGUAGES**

**English**, *native*
**Spanish**, *intermediate level – lived in Peru 2014-2015*

**PUBLICATIONS**

Garrity, Thomas. *Electricity and Magnetism for Mathematicians: A Guided Path from Maxwell's Equations to Yang-Mills*. New York: Cambridge University Press, 2015.

- Created all diagrams, including cover illustration, with Adobe Illustrator
- Proofread, indexed, and worked all exercises

Krishna Dasaratha, Laure Flapan, Thomas Garrity, Chansoo Lee, Cornelia Mihaila, Nicholas Neumann-Chun, Sarah Peluse, Matthew Stoffregen. "A Generalized Family of Multidimensional Continued Fractions: TRIP Maps." *International Journal of Number Theory* 10.8 (2014): 2151-2186. http://arxiv.org/abs/1206.7077

- One result of the number theory research we did during summer 2011, during which we attacked the problem of extending continued fractions to degrees higher than two

Krishna Dasaratha et al. "Cubic irrationals and periodicity via a family of multi-dimensional continued fraction algorithms." *Monatshefte für Mathematik* 174 (2014): 549-566. http://arxiv.org/abs/1208.4244

- Based on research done during summer 2011

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## EDUCATION

**Coding House Institute**, Silicon Valley *2016*

- The "Only Live-In" Web Dev Bootcamp
- Students eat, breathe, and sleep code for two intense months. I stayed on for another two months as a Code Mentor.

**Williams College**, Williamstown, MA *B.A., 2013*

- Major: Mathematics GPA: 3.58
- Completed half the requirements for a Computer Science Major

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## MISC.

**Appalachian Trail Thru-Hike** *2014*

- A 2200-mi. (3500-km.) footpath through the Appalachian Mountains

**Wilderness First Aid**, NOLS Wilderness Medicine Institute *2014*

- Certification Course

**Hudson River Undergraduate Math Conference**

- Presented on short topics during the 2009, 2010, 2011, and 2013 conferences

**Joint Mathematics Meetings**, San Francisco, CA *2010*

- Presented the poster: *The Isoperimetric Problem in Sectors with Density r*
- Wrote for the AMS Grad School Blog (http://blogs.ams.org/mathgradblog)