Nicholas G. Neumann-Chun

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

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COMPUTER

Skills: JavaScript, Node, React, Angular, Express, MongoDB, jQuery, Git, Gulp, Heroku, Bootstrap, LaTeX

Exposure: Java, Python, Scala, Mathematica, Flux, GraphQL, Relay, Firebase, jspm, Webpack, Mocha, Passport, 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. We attacked the problem of extending continued fractions to degrees higher than 2

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

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)