Nicholas G. Neumann-Chun

Full-Stack JavaScript Developer with a Mathematics Degree from Williams College

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https://babelthuap.github.io (Homepage)
@Babelthuap (Twitter)
https://github.com/babelthuap (GitHub)

COMPUTER

Skills: JavaScript, Node, React, Angular, Express, MongoDB, jQuery, Git, Heroku, HTML/CSS, Bootstrap, LaTeX

Exposure: Java, GraphQL, Flux, Firebase, Python, Ruby on Rails, Scala, Mathematica, jspm, Gulp, Webpack, Mocha, Passport, Foundation

EXPERIENCE

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

COOL PROJECTS

Start Coding – http://startcoding.org *Feb 2016*

- A public, social bookmarks list for discovering and sharing coding resources
- Learned a lot about teamwork, GitHub, React, and MongoDB
- Created an event emitter system from scratch; wrote a recursive algorithm to generate a tree structure from a Mongo collection of comments

Green it! – http://paulgoblin.github.io/greenit-frontend *Jan 2016*

- A Reddit-inspired app built with React and MongoDB

Friend Finder – http://young-favorite-users.herokuapp.com *Jan 2016*

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

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 done during summer 2011: attacked the problem of extending continued fractions to degrees higher than 2

Krishna Dasaratha et al. "Cubic irrationals and periodicity via a family of multidimensional 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
- Eat, sleep, and breathe MEAN stack development for four intense months
- In the second half, mentor new students and work with teams of peers building larger projects

Williams College, Williamstown, MA *B.A., 2013*
- Major: Mathematics GPA: 3.58
- Completed four Computer Science courses

VOLUNTEER

Centro de Textiles Tradicionales del Cusco, Peru *2015*
- English tutor & Technology handyman

LANGUAGES

English, *native*
Spanish, *intermediate level – studied in 3rd-12th grade, lived in Peru 2014-2015*

MISC.

Superior Hiking Trail Thru-Hike *2015*
- A 230-mi. (370-km.) trek along the shore of Lake Superior

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)