Christopher James Walsh Henn

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github.com/chnn

EDUCATION   Reed College—Portland, Oregon. BA in Mathematics expected May 2018.

EXPERIENCE

Software Engineer, H2Ometrics   *June 2012 to June 2017 (part/full time)*

- Architected, implemented, and maintained a large JavaScript application over five years.
- Developed novel and performant web-based visualizations of large time series data sets.
- Mentored several new employees through pair programming and code reviews.
- Designed and implemented a RESTful API with Python, PostgreSQL, and the SciPy stack.

Engineering Intern, Tilde   *June 2015 to August 2015 (full time)*

- Collaborated closely with Ember.js core members on the Skylight product.
- Wrote weekly blog posts for an audience of thousands of developers .
- Pair programmed to clean up a legacy Ruby on Rails code base.
- Worked with a designer to implement interactive visualizations of complex data structures in the Skylight product.

Speaker, EmberConf 2015   *March 2015 (one-time event)*

- Delivered a [25-minute talk](#) to an audience of 600 software engineers.
- Discussed a compositional approach to animated and interactive data visualizations in the Ember JavaScript framework.

Mathematics Research Assistant, Reed College   *June 2017 to August 2017 (full time)*

- Worked under Kyle Ormsby on Project Project, a math visualization research project.
- Produced an animated and interactive visualization of two-dimensional derivatives.
- Programmed 3D sculptures in Mathematica, using knowledge from topology, complex analysis, and linear algebra.

SIN Webmaster, Reed College   *March 2016 to December 2017 (part time)*

- Maintained a collection of Django applications for student self-governance at Reed College.
- Collaborate closely with student senators to enact student body legislation.
- Developed and improved features to elect student officials, calculate and balance budgets, and manage student organizations.

SKILLS

- Mastery of Python, JavaScript, HTML, CSS, SVG, and component-based UI frameworks.
- Expert data visualization skills, including mastery of the d3.js library.
- Experience with modern development tools and practices, including version control with Git and GitHub, test-driven development, and agile methodologies.
- Experience working on remote teams and in a variety of autonomous roles.
- Proficient in the SciPy stack, including Pandas, NumPy, HDFS, and matplotlib.
- Proficient in algorithms & data structures, linear algebra, vector calculus, statistics & probability, topology, representation theory, real analysis and abstract algebra.

INTERESTS   Trail running, climbing, backcountry skiing. Team Leader with Marin County Sheriff's Search and Rescue team. Certified EMT, WFR and MCPIC. Leader Reed College Mountaineering Club.