Christopher James Walsh Henn

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github.com/chnn

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

EXPERIENCE

Software Developer, H2Ometrics   (June 2012-June 2017)

- Architected, implemented, and maintained a large Ember.js application over several 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-August 2015)

- Worked closely with Ember.js core members Yehuda Katz and Leah Silber, discussing and significantly shaping the Skylight product.
- Collaborated closely with designer to implement interactive visualizations of complex data structures in 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.

Speaker, EmberConf 2015   (March 2015)

- 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-August 2017)

- Worked under Kyle Ormsby on Project Project, a math visualization project.
- Produced an animated and interactive visualization of concepts from multivariable calculus.
- Programmed 3D sculptures of concepts from homotopy theory, complex analysis and algebra using Mathematica.

SIN Webmaster, Reed College   (March 2016-Present)

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

SKILLS

- Mastery of JavaScript, Python, HTML, CSS, SVG, and component-based UI frameworks.
- Expert data visualization skills, including mastery of the d3.js library.
- Proficient in the SciPy stack, including Pandas, NumPy, HDFS, and matplotlib.
- Familiar with Go, R, Ruby on Rails, Rust, Django, Mathematica, and SQL.
- Proficient in linear algebra, vector calculus, algorithms, analysis, abstract algebra, statistics, probability, and elementary physics.
- Experience working on remote teams and communicating directly with clients.

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.