

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 (mixed full/part time)

- Architected, implemented, and maintained a modern JavaScript frontend application at scale over five years.
- Pushed browser performance limits with novel techniques to visualize large time series data sets.
- Mentored four new employees through pair programming and code reviews.
- Designed and implemented a RESTful WebSocket API with Python, PostgreSQL, and the SciPy stack.

Engineering Intern, Tilde — Summer 2015

- Shaped the direction of the Skylight APM product through collaboration with Ember.js core team members.
- Wrote weekly newsletters for an audience of thousands of developers .
- Pair programmed to refactor a legacy Ruby on Rails code base in preparation for new product requirements.
- Worked with a designer to implement interactive d3.js-based visualizations of complex data structures.

Speaker, EmberConf — March 2015

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

Mathematics Research Assistant, Reed College — Summer 2017

- Collaborated with professor Kyle Ormsby on Project Project, a math visualization research project.
- Produced an animated and interactive visualization of two-dimensional derivatives with Ember.js and d3.js.
- Programmed 3D-printable sculptures in Mathematica, with knowledge from topology, analysis, and linear algebra.

SIN Developer, Reed College — March 2016 to December 2017 (part time)

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

SKILLS

- Mastery of JavaScript, Python, and modern component-based UI frameworks.
- Expert data visualization skills, including mastery of the d3.js library.
- Experience working on remote teams and in a variety of autonomous roles.
- Product-focused with a desire to refine and improve requirements and driven by opportunities to learn.
- Proficient in the SciPy stack, including Pandas, NumPy, HDF5, and matplotlib.
- Proficient in algorithms & data structures, statistics & probability, linear algebra, vector calculus, 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.