

John R. Ward

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http://nucleol.us • github.com/joliv

Education

Bowdoin College Brunswick, ME

Bachelor of Arts expected May 2019

Majors: Computer Science and Government & Legal Studies

GPA 3.9

Honors: Sarah and James Bowdoin Scholar (Dean's List) 2016-2017 and 2017-2018, National Merit Scholar, Bowdoin Faculty

Scholar

Relevant Coursework: Data Structures, Systems, Algorithms, Computational Geometry, GIS Algorithms, Principles of Programming Languages, Mobile Computing, Multivariate Calculus, Linear Algebra

Work Experience

FiscalNote Washington, DC

May 2017-Present

Engineering Intern

- Wrote backend and frontend features on a Ruby on Rails monolith with Node.js microservices behind an Ember (MVC) frontend
- Rewired the web client's network library to make network calls more resilient to outages and responsive
- Coordinated and assembled specifications and releases with product, QA, mobile, and database teams
- Closed and continue to close dozens of feature and bug tickets weekly

Atlas Lane Washington, DC

June 2016-September 2016

Engineering Intern

- Architected a fault-tolerant system to aggregate, normalize, and store rental listing data with AWS Lambda micro-services in Node.js
- Designed and created an interactive map interface with search and filtering functions for assembling rental estimates
- Collaborated with a small team of developers using Github

Bowdoin College Computer Science Department Brunswick, ME

September 2016-Present

Teaching Assistant, Grader

- Tutored students in need of help during weekly office hours, assisted with completion of problem sets and preparation for exams
- Graded problem sets each week, gave clear feedback, entered grades
- Provided weekly feedback to faculty member on student progress and understanding of concepts taught in class

Technical Skills

Programming Languages: Python, C, C++, Javascript, Node.js, Ruby, Go, Rust, HTML, (S)CSS

Front-end: Ember MVC, JQuery, Ruby on Rails, Vagrant, Git, PostgreSQL, Bash, countless package managers

Leadership Experience

The Bowdoin Globalist

September 2015-Present

Web, Managing Editor

- Designed and built website for the Bowdoin Globalist, Bowdoin's politics and culture magazine
- Directed publication process for a staff of 40, managing the schedules of the writers and photo and copy editors

WBOR 91.1 FM

September 2015-Present

Management Team, Station Equipment Manager

- Worked with management team to bring artists to campus, organized concerts and events, recruited and interviewed new hosts
- Maintained station terrestrial broadcasting equipment and other technical infrastructure including the website

Portfolio

The Bowdoin Globalist bowdoinglobalist.com

Goal: To create a clean platform to bring student journalists' long-form pieces to wider audiences

Construction: Used HTML, CSS, and JS, remotely managed Ubuntu server, administered WordPress backend

Wordy Weather weather.nucleol.us

Goal: To present weather reports that reflect more detail and uncertainty than commonly-used applications

Construction: Used Python (Flask webserver) and PostgreSQL, exposed a JSON and plaintext API, set up server pipeline

Spark github.com/joliv/spark

Goal: To provide a simple way to visualize sets of numbers

Construction: Simple Go library