

John “Jack” Ward

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Education

Bowdoin College Brunswick, ME **May 2019**
Bachelor of Arts, Computer Science, Mathematics Minor **GPA 3.93**
Honors: Sarah and James Bowdoin Scholar (Dean’s List) 2016 and 2017, National Merit Scholar, Bowdoin Faculty Scholar
Relevant Coursework: Systems, Algorithms, Computational Geometry, GIS Algorithms, Programming Languages, Mobile Computing, Multivariate Calculus, Linear Algebra, Ordinary Differential Equations, Numerical Methods

Work Experience

Okta San Francisco, CA **May 2018-August 2018**
Software Engineering Intern

- Advanced Okta’s customer extensibility vision by writing webhook and third-party callback hooks into user management product, among other top customer-requested features for user-group automation
- Contributed to a monolithic enterprise Java codebase and associated micro-services while maintaining standards for security, test coverage, scalability, documentation, and general hygiene
- Coordinated efforts and API design across product teams through meetings and documentation, maintaining consistency and synchrony in the new product area’s immaturity and amorphousness

FiscalNote Washington, DC **May 2017-January 2018**
Software Engineering Intern

- Rewired the web client’s networking library to make backend calls more resilient to outages, reducing customer complaints and the support burden from spotty service or ISP failures
- Wrote customer-requested backend and frontend features on a Ruby on Rails monolith with Node.js microservices
- Assembled specifications with product, QA, mobile, and database teams to fit clients’ needs within broader roadmap

Atlas Lane Washington, DC **June 2016-August 2016**
Software Engineering Intern

- Architected a fault-tolerant system to aggregate and normalize geographic rental data with AWS Lambda micro-services
- Designed and implemented an interactive map interface with search and filtering functions for assembling rental estimates
- Collaborated with a team of developers to accelerate the small startup’s products from mere ideas to market

Technical Skills

Programming Languages: Python, C, C++, Java, Javascript & Node.js, Ruby, Go, Rust, HTML, CSS

Tools: PostgreSQL, MySQL, Ember, React, JQuery, Ruby on Rails, Maven, Git

More Broadly: Full stack web development – navigating, grok-ing, and debugging intractable enterprise codebases – REST API design and specification – multithreading and parallel programming – caching and memory efficiency – object-orientation and separation of concerns – SQL schema design and query optimization – Test-Driven Development – Scrum and Agile software planning and development – UI design and implementation

Leadership Experience

The Bowdoin Globalist **September 2015-Present**
Managing Editor

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

WBOR 91.1 FM **September 2015-Present**
Co-Station Manager

- Maintained websites, station terrestrial and web broadcasting equipment, and other technical infrastructure
- Managed team of 16 students and over 100 student radio hosts to handle FCC compliance, negotiate deals with artists, schedule shows, and maintain a consistent presence on the air and in the midcoast Maine community

Bowdoin College Department of Computer Science **August 2016-Present**
Teaching Assistant and Grader

- Led weekly review sessions, assisted with problem sets and preparation for exams
- Relayed weekly feedback to faculty on student progress and understanding of concepts taught in class