Daniel Wood

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EDUCATION

Princeton University, B.S.E. May 2018
Major: Computer Science | **Minor:** Entrepreneurship | **GPA:** 3.893 | **Departmental GPA:** 4.00

Dover Sherborn High School, Dover, MA June 2014

RESEARCH/PUBLICATIONS

Wood, D., Apthorpe N., & Feamster, N. Cleartext Data Transmission in Consumer IoT Medical Devices. In *Proceedings of Workshop on Internet of Things Security and Privacy*: Dallas, TX. (November 2017), ACM.

Jonsdottir, G., **Wood, D.**, & Doshi, R. IoT Network Monitor. In *Proceedings of IEEE MIT Undergraduate Research Technology Conference*: Cambridge, MA. (November 2017), IEEE.

IoT Network Monitor, Junior Independent Work, Advised by Professor Nick Feamster

- Programmed a router to analyze home IoT devices for vulnerabilities including default passwords, plaintext leaks of personal information, and anomalous Botnet-controlled behavior
- Presented at 2017 Capitol Hill Science Exhibition in Washington, D.C. and met individually with Senator Edward Markey, Congressman Joe Kennedy III, and National Science Foundation Director France Córdova
- **Computer Science Department Best Poster Award Spring 2017**

WORK EXPERIENCE

Akamai Technologies, Software Engineering Intern, Performance Engineering May – August 2017

- Built an end-to-end live-stream video delivery system via multicast, including the video scheduler, multicast sender, embedded multicast receiver, unicast repair modules and viewable HLS player
- Improved live-stream scalability by replacing Unicast with NACK-Oriented Reliable Multicast protocol

Akamai Technologies, Software Engineering Intern, Security Engineering May – August 2016

- Built SSH Manager to securely rotate collections of SSH keys on Akamai's Intelligent Platform
- Deployed component to Akamai's Global Host network, supporting over 1,000 requests per minute

Academy of Sciences of the Czech Republic, Computational Researcher May – August 2015

- Constructed computational homology models of enzyme EcoR1241 by running molecular dynamics simulations to help researchers better understand the enzyme's Restriction Modification behavior
- **Best Research Award**, University of Southern Bohemia

PROJECTS

TigerNav, Princeton University

- Developed an indoor and outdoor navigation web application for Princeton, including directions to the nearest bathroom, printer, laundry, and wheelchair-accessible route (COS 333 Project)

Hubble, Co-founder, Keller Center for Innovation and Entrepreneurship

- Awarded $20,000 as one of five teams in Princeton's E-lab Accelerator Program
- Created a social mobile app enabling students to meet up with friends and organizations to promote events

LEADERSHIP/EXTRACURRICULARS

President, Tau Beta Pi: National Engineering Honor Society, Princeton University 2016 – 2017

- Early induction for Top 12% of B.S.E. candidates
- Elected President by students and faculty to oversee all chapter functions, service projects, and annual induction

President, Orange Key Tour Association, Princeton Office of Undergraduate Admission 2016 - 2017

- Manage over 120 tour guides and 1,500 annual campus tours to over 50,000 visitors

Peer Academic Advisor, Mathey College
Associate Concertmaster, Princeton University Orchestra
Music Director, Princeton Chamber Orchestra