

Brian Desnoyers

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(845) 978-9999

EDUCATION

Tufts University School of Medicine, Boston, MA 2019 – 2023

Candidate for a Doctor of Medicine and Master of Public Health May 2023

Khoury College of Computer Sciences at Northeastern University, Boston, MA 2013 – 2019

Master of Science in Computer Science April 2019

Honors: GPA: 4.00/4.00 | Double-Husky Scholarship | Specializations: Artificial Intelligence and Data Science

Project: Detection and Stimulation of Movement During Sleep with Tactile Feedback (Apple Watch)

Bachelor of Science in Computer Science and Biology May 2017

Honors: GPA: 3.82/4.00 | Comp. Sci. GPA: 3.94/4.00 | Dean's Scholarship | Huntington 100 | Honors Program | CCIS Peer Mentor

COMPUTER KNOWLEDGE

Languages: Swift | Objective-C | Python | SQL | C/C++ | Java | Perl | R | Lisp/Racket/ACL2

Systems: macOS | Ubuntu Linux | Windows XP/Vista/7/8/10

Software: Xcode | IntelliJ IDEA and PyCharm | Eclipse | R Studio | Vim | Microsoft Office

WORK EXPERIENCE

Massachusetts Institute of Technology Lincoln Laboratory, Lexington, MA

Assistant Technical Staff- Cyber Analytics and Decision Systems 2017 – 2019

- Developed components within a cybersecurity architecture for federal departments and agencies and performed supporting research, including systems analysis, data science, and design and execution of a longitudinal study to evaluate behavioral effects on security.

Apple Inc., Pittsburgh, PA

Productivity Applications Software Engineering Co-Op July – December 2016

- Worked with a geographically distributed team to add tables to Apple Notes as part of iOS 11 and macOS High Sierra.
- Built the data model behind the tables feature, handling serialization and logic for deterministic merging across replicas for cloud sync and collaboration, as well as UI components.

Brigham and Women's Hospital, Boston, MA

Sleep Laboratory Research Technician 2015 – 2016

- Monitored and interacted with inpatient subjects, including taking vital signs, collecting and processing biological specimens, and applying PSG electrodes (EEG, EOG, EMG, EKG).
- Executed protocols for multiple studies simultaneously and acted as study staff for numerous study interventions.
- Developed and presented a millisecond accurate psychomotor vigilance task for iOS devices along with mobile cognitive test management software, SQLite database, and automated scoring software for data from testing apparatus.

TAVANA LLC, Boston, MA

Software Developer 2015 – 2016

- Developed a novel cyclist-driver communication application for iOS, using a combination of bluetooth, GPS, and web technologies.
- Designed firmware for SoC built around ARM Cortex CPU as part of cyclist-driver communication hardware.

Other Relevant Experience

American Red Cross of Massachusetts, Cambridge, MA

Volunteer Instructor 2013 – Present

- Teach courses in CPR/AED, first aid, and caregiving skills to nurses and other healthcare providers, as well as lay responders.
- Certified approximately 1,000 people in American Red Cross courses.

Northeastern University, Boston, MA

Housing and Residential Life – Resident Assistant 2015 – 2017

- Liaised with staff to form strong residence community and respond to resident concerns, issues, and emergencies.
- Organized activities in areas of cultural competency, community engagement, critical thinking, and personal development.

College of Computer and Information Science – Teaching Assistant and Course Tutor 2014 – 2017

Department of Marine and Environmental Sciences – Biostatistics Course Tutor 2014 – 2015

- Guided students through assignments and difficult course material during office hours and facilitated weekly discussion section.
- Graded exams and homework assignments.

References will be furnished upon request.