

Brian Desnoyers

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AVAILABILITY: JUNE 2017

EDUCATION

Northeastern University, Boston, MA

2013 – Present

College of Computer and Information Science

Candidate for a Bachelor of Science in Computer Science and Biology

May 2017

Relevant Courses: Algorithms and Data | Software Development | Machine Learning | Database Design | Biostatistics (R programming)
Bioinformatics Computational Methods (Graduate) | Genetics and Molecular Biology | Honors Organic Chemistry

Honors: **GPA: 3.79/4.00** | Computer Science GPA: 3.94/4.00 | Dean's Scholarship | Dean's List | Honors Program | CCIS Peer Mentor

COMPUTER KNOWLEDGE

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

Apple, Pittsburgh, PA

Productivity Applications Software Engineering Co-Op

July – December 2016

- Worked with a geographically distributed team to build a new feature for Apple Notes on iOS and macOS.
- Built the data model behind the feature, handling serialization and logic for merging across devices 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 using C/C++.

Union Vale Parks and Recreation, LaGrangeville, NY

Lifeguarding Instructor, Water Safety Instructor, Head Lifeguard, Swim Coach

2010 – 2014

- Designed Python web API for manipulating swim team stats from team database on website, and developed website and database.

OTHER RELEVANT EXPERIENCE

Northeastern University, Boston, MA

Housing and Residential Life – Resident Assistant

2015 – Present

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

College of Computer and Information Science – Theory of Computation Teaching Assistant

2016 – Present

College of Computer and Information Science – Discrete Structures Course Tutor

2014 – 2015

Department of Marine and Environmental Sciences – Biostatistics Course Tutor

2014 – 2015

- Guide students through assignments and difficult course material during office hours and facilitate weekly discussion section.
- Grade exams and homework assignments.

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.

References will be furnished upon request.