Brian Desnoyers

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104 Stowe Drive | Poughquag, NY 12570
AVAILABILITY: MAY – DECEMBER 2016

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 | Database Design | Object Oriented Design | Biostatistics (R programming)
Bioinformatics Computational Methods (Graduate) | Genetics and Molecular Biology | Honors Organic Chemistry

Honors: **GPA: 3.80/4.00** | Computer Science GPA: 3.93/4.00 | Dean's Scholarship | Dean's List | Honors Program | CCIS Peer Mentor

COMPUTER KNOWLEDGE

Languages: Java | Swift | SQL | Perl | R | Python | C/C++ | Lisp/Racket/ACL2 | LaTeX
Systems: OS X | Ubuntu Linux | Windows XP/Vista/7/8/10
Software: IntelliJ IDEA and PyCharm | Xcode | Eclipse | R Studio | Vim | Microsoft Office

WORK EXPERIENCE

Brigham and Women's Hospital, Boston, MA

Sleep Laboratory Technician   2015 – Present

- Monitor and interact with inpatient subjects, including taking vital signs, collecting and processing biological specimens, and applying PSG electrodes (EEG, EOG, EMG, EKG).
- Execute protocols for multiple studies simultaneously and act as study staff for numerous study interventions.
- Develop and present 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 – Present

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

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 – Discrete Structures 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.

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

- Held tutoring sessions to assist students with course content and R programming assignments.

American Red Cross of Massachusetts, Boston, 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.

Union Vale Parks and Recreation, LaGrangeville, NY

Lifeguarding Instructor, Water Safety Instructor, Head Lifeguard, Swim Coach   2010 – 2014

- Developed and led a weekly in-service training program to ensure that facility staff were prepared to respond to emergency situations.
- Certified park staff in lifeguarding, first aid, and CPR skills and taught swimming and water safety skills to both children and adults.
- Designed Python web API for manipulating swim team stats from team database on website, and developed website and database.

Jewish Community Center of Dutchess County, Poughkeepsie, NY

Swim Coach   2010 – 2013

- Managed team database and developed and maintained team website and communications, using HTML and Flash, then WordPress.
- Created team meet line-ups and led a team that managed swim meets through automated meet timing and scoring system.
- Composed season workout plans and published those plans to be used by the coaching staff for all practices.

References will be furnished upon request.