Jeffrey DeVince

S-0566 1 Castle Point, Hoboken, NJ 07030 | Cell: 203-887-6907 | Email: jeffrey.devince@gmail.com | jeffdevince.com

EDUCATION:

Stevens Institute of Technology, Hoboken, NJ
Master of Science in Computer Science, May 2016, GPA: 3.951
Bachelor of Engineering in Biomedical Engineering, May 2016, GPA: 3.949
Honors: Whitaker International Undergraduate Award, Tau Beta Pi Honor Society, Alpha Eta Mu Beta Honor Society, Clinical Engineering Services, Inc. Design Excellence Award, Stevens Scholars Program

SKILLS:

Languages: C#, SQL, .NET, Magento, Javascript, jQuery, PHP, CSS, HTML, Sass, Linux Command Line, Terraform, Puppet, MATLAB, Python
Software: Atlassian Suite (JIRA, Confluence, Bitbucket), Git, AWS, Visual Studio, Team Foundation Server, SQL Server 2012, phpMyAdmin, Microsoft Office Suite, MATLAB, Simulink, BCI2000, BrainBay
Hardware: Arduino, Spark Core, Particle Photon, Neurobit Optima 4, Emotiv EPOC, ModularEEG

WORK EXPERIENCE:

Robofirm, New York, NY
Software Engineer 8/15-5/16

- Developed proprietary Magento theme and custom modules to be applied to client websites
- Migrated client production websites from Rackspace to AWS using Terraform and Puppet
- Implemented Robofirm's newly designed public facing website using Drupal 8

Brigade Capital Management, New York, NY
Software Development Co-op Intern: 5/15-8/15

- Developed custom software using the Microsoft Technology Stack (C#, .NET, SQL Server) for business users
- Created SQL queries to provide financial data analysis for traders, analysts, and other users
- Automated business reporting using SQL Server Reporting Service

Regeneron Pharmaceuticals, Tarrytown, NY
Preclinical Manufacturing and Process Development Co-op Intern: 8/12-12/12 and 1/14-5/14

- Executed shake flask mammalian cell culture experiments to optimize the protein of interest's titer and product quality attributes
- Analyzed results and developed process recommendations based on experimental data

Freelance Experiences:

- Developed a laundry monitoring system consisting of a web-connected hardware device and website that allows users to remotely view the availability of shared laundry appliances
- Built a MATLAB GUI to allow the client to import EDF formatted EEG data and produce WAV and MIDI formatted audio files based on customizable user settings
- Created a Solidworks' 3D model of a next-generation doctor's bag for home visits based on a medical doctor's specifications to allow a client to conduct user feedback research

RESEARCH EXPERIENCE:

Stevens Institute of Technology, Hoboken, NJ
Brain-Computer Interface Undergraduate Researcher: 5/13-8/13 and 5/14-8/14

- Developed an EEG based BCI system based on motor imagery control using a Neurobit Optima 4 device
- Conducted a six-week experiment with the developed BCI system to evaluate four users' two-dimensional motion control of a computer cursor
- Extensively programmed scripts in Matlab, Python, and BrainBay for signal analysis and motion control

Tissue Engineering Undergraduate Researcher: 6/12-8/12

- Collected and analyzed data from published research papers on scaffolds for neural regeneration
- Developed a novel normalization method to compare regeneration effectiveness of different nerve graft types

PUBLICATIONS:

Chang, W.*, DeVince, J.*, Green, G., Shah, M. B., Johns, M. S., Meng, Y. and Yu, X. (2013), **The Development of a Normalization Method for Comparing Nerve Regeneration Effectiveness Among Different Graft Types**. *Journal of the Peripheral Nervous System*, 18: 297–305. doi: 10.1111/jns5.12043
*These authors contributed equally to this work.

DeVince, J. and Ritter, A. (2014), **Two-Dimensional Movement Control Using a Non-Invasive, Low-Cost, Brain-Computer Interface**. Poster Presentation at the Biomedical Engineering Society 2014 Annual Meeting.

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