

JON JANELLE

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RELEVANT WORK EXPERIENCE

Central Catholic High School, Lawrence, MA

Sept. 2014 - Present

Computer Science and Mathematics Teacher

- Teacher of AP Computer Science A in Java, Introduction to Game Design in Python, and Calculus I
- Advisor for the Coding Club, a student organization focused on competitive programming in Java and Python
- Continually design and revise curricula to maximize student engagement and performance
- Created and maintained course websites to provide assignments, notes and other digital resources to students

The University of Maine, Orono, ME

May 2013 - Sept. 2014

Interim Assistant Director of the University of Maine Research in STEM Education Center

- Wrote scripts to clean, analyze, and visualize data using Python, R, and Microsoft Excel
- Contributed to program evaluations to support the renewal of grants from the National Science Foundation
- Designed and facilitated Common Core State Standards training workshops for secondary mathematics teachers

S.W. Cole Engineering Inc., Bangor, ME

Aug. 2012 - Dec. 2012

Statistical Consultant

- Created scripts in R and Python to perform statistical analyses of plant abundance data collected from experimental farms
- Interpreted and communicated statistical findings to a research team

The University of Maine, Orono, ME

Sept. 2004 - May 2006

Teaching Assistant and System Administrator

- Maintained user accounts and performed system maintenance and backup on a Unix-based system
- Wrote scripts to process system log data using in Python and PERL
- Designed and created C++ software to drive a robotic chess system to use as a demonstration during campus tours
- Teaching assistant for a microcomputer architecture course using the Motorola HC11 processor

EDUCATION

Harvard University Extension School, Cambridge, MA

Graduate Certificate

Concentration: Software Engineering

Expected Spring 2018

Relevant Coursework: Intro to Computer Science Using Java I & II, Data Structures, Web Application Development, Graph Theory, Vector Mathematics

University of Maine, Orono, ME

M.S.T. May 2014

Concentration: Mathematics Education

Relevant Coursework: Statistical Methods in Education I & II, Multivariate Statistics, Bayesian Statistics, Mathematical Statistics, Statistical Methods in Research, Partial Differential Equations, Educational Psychology, Evaluation of Instruction

University of Maine, Orono, ME

B.S. May 2010

Major: Secondary Mathematics Education

Relevant Coursework: Computer Science I & II using C++, Microcomputer Architecture, x86 Assembly Programming, Calculus I-III, Abstract Algebra, Real Analysis, Discrete Mathematics, Differential Equations, Linear Algebra

PROFESSIONAL DEVELOPMENT

Udemy Complete Web Developer Course

Oct. 2016 - Feb. 2017

- Fundamentals of client side web-development using HTML5, CSS3, Javascript, and jQuery

Coursera and John Hopkins University

June 2014 - June 2016

- Completed courses in Exploratory Data Analysis, R Programming, Statistical Inference, Mathematical Biostatistics, Regression Analysis, Computational Data Analysis, and Statistics for Public Health

TECHNOLOGICAL SKILLS

Programming Languages

- Strong knowledge of Java, Python, PHP, R, JavaScript, HTML5, and CSS3

Data Analysis

- Proficient in the use of R, Python and Excel to organize, analyze, and visualize data
- Experience creating, querying, and maintaining MySQL databases

Other

- Thorough understanding of objected-oriented design principles
- Strong knowledge of the MVC design patterns
- Significant experience using the Laravel PHP framework and Django Python framework to create dynamic and RESTful web applications
- Regular user of Git and Github for content version management and collaboration
- Active participant in the online coding platforms HackerRank and CodeFights
- Comfortable with working in Windows, Linux, and Mac OS environments