JON JANELLE

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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
- Continually design and revise curricula to maximize student engagement and performance
- Created and maintain course websites to provide assignments, notes and other digital resources to students
- Advisor for the Technology Club, a student organization focused on computer software development in Java and Python
- Use dynamic geometry software, graphing calculators, and web-based assessment systems to enhance instruction

The University of Maine, Orono, ME   **May 2013 –Sept. 2014**
Interim Assistant Director of the University of Maine Research in STEM Education Center
- Contributed to successful National Science Foundation grant applications to support science education in rural Maine
- Collected data from Maine elementary schools to support grant acquisition for elementary teacher training programs and performed analyses using Python, R, and Microsoft Excel
- Designed and facilitated Common Core State Standards training workshops for secondary mathematics teachers
- Planned and oversaw professional development conferences for middle and secondary mathematics and science teachers

The University of Maine, Orono, ME   **Sept. 2013 –May 2014**
Support for Science Students Program Coordinator
- Hired, trained, and supervised tutors for introductory mathematics and science courses
- Organized and advertised STEM-related lectures, workshops, and social events for undergraduate students

The University of Maine, Orono, ME   **Aug. 2012 –May 2013**
Course Coordinator and Mathematics Instructor
- Taught undergraduate courses in applied algebra and data analysis
- Oversaw and advised graduate teaching assistants in the Department of Mathematics and Statistics
- Organized and facilitated instructional planning meetings with graduate teaching assistants

EDUCATION

Harvard University Extension School, Cambridge, MA   **Graduate Certificates**
    Concentration: Web Technologies and Software Engineering   **Expected Spring 2017**

    Relevant Coursework: Intro to Computer Science Using Java I & II, Data Structures, Web Application Development, Agile Software Development, Cross-Platform Mobile Applications with Xamarin, 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, JavaScript, C#, C++, HTML5, and CSS3

Data Analysis
- Significant experience using R and Excel to organize, analysis, and visualize data
- Proficient with creating, querying, and maintaining MySQL and MongoDB databases

Other
- Thorough understanding of objected-oriented design principles
- Experience using the Agile development methodology
- Knowledge of the requirements for creating RESTful APIs
- Regular user of Git and Github for content version management and collaboration
- Comfortable and experienced with working in Windows, Linux, and Mac OS environments