JON JANELLE

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Problem-solving enthusiast with over a decade of computer science and mathematics experience and an insatiable appetite for learning

Technical Skills

- Advanced knowledge of Java, Python, PHP, R, HTML5, and CSS3
- Intermediate knowledge of SQL, JavaScript, and Ruby
- Skilled in the use of the Laravel and Django MVC frameworks to create dynamic web applications
- Thorough understanding of objected-oriented design and test-driven development
- Regular user of Git and GitHub for version control and collaboration
- Active in coding competitions hosted by HackerRank, CodeFights, and ProjectEuler

Data analysis

- Significant experience using R and Excel to clean, analyze, and visualize data
- Advanced knowledge of mathematical statistics, including Bayesian and nonparametric techniques
- Proficient in the design and maintenance of relational databases using MySQL

Relevant Work Experience

Central Catholic High School, Lawrence, MA

Sept. 2014 - June 2017

Computer Science and Mathematics Teacher

- Designed and taught curricula for AP Computer Science A in Java, Introduction to Game Design in Python, and Calculus I
- Founded a Mathematics Team and a Coding Club that encouraged more than 100 students to engage with computer science and mathematics

The University of Maine, Orono, ME

Aug. 2012 - Aug. 2014

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

- Cleaned, analyzed, and visualized large data sets using R and Python
- Contributed to program evaluation reports to support the renewal of more than \$13 million in grants from the National Science Foundation
- Created a custom mail-merge system using PHP and JavaScript which more than halved mail campaign preparation time
- Automated the generation of client invoices using Python scripts to query MySQL database tables and generate PDF documents from the results

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

Aug. 2012 - Dec. 2012

Statistical Consultant

- perform statistical analyses and visualizations of plant abundance data collected from experimental farm sites using R and Python
- 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 on a Unixbased server
- Efficiently processed system log data using in Python and PERL
- Designed C++ software to drive a robotic chess system to use as a demonstration during campus tours, boosting visitor interest
- Teaching assistant for a microcomputer architecture course using the Motorolla HC11 processor

Formal Education

Harvard University Extension School, Cambridge, MA

A.L.M., Spring 2019

Concentration: Software Engineering

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

University of Maine, Orono, ME

M.S.T., May 2014

Concentration: Mathematics Education Research

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, Digital Logic with VHDL Design, Calculus I-III, Abstract Algebra, Real Analysis, Discrete Mathematics, Differential Equations, Linear Algebra

Other 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