Travis W. Peters

Dartmouth College Department of Computer Science

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Education

Ph.D., Computer Science   *September 2013 - June 2018 (expected)*
Dartmouth College, Hanover, NH

B.S., Mathematics & Computer Science   *September 2008 - December 2012*
Western Washington University (WWU), Bellingham, WA

Associate in Arts (Running Start)   *January 2007 - June 2008*
Lower Columbia College (LCC), Longview, WA

Relevant Work Experience

Graduate Teaching Assistant, *Dartmouth College, Hanover, NH*   *September 2013 - Present*
- Fall 2013 – Introduction to Programming & Computing (Python)
- Winter 2014 – Problem Solving via Object-Oriented Programming (Java)

DevOps Contractor, *Attachmate, Bellingham, WA*   *January 2013 - August 2013*
- Designed and built major components of a virtual machine (VM) template management infrastructure using Opscode Chef and VMware's vCloud Director to maintain (patch & update) Windows, Red Hat Linux, and SUSE Linux systems.
- Developed scripts (Ruby, Bash, and Batch) to automate routine tasks (installing software components, configuring machine settings, etc.).
- Maintained specification & design documentation about progress in software development, and relevant processes & systems.

Software Engineer Intern, *Attachmate, Bellingham, WA*   *August 2012 - December 2012*
- Generalized the solution for the Sentinel Extensions for Luminet solution to support logging to various Security Information & Event Management (SIEM) systems.
- Designed a customizable XML configuration file, wrote the related StAX parser, and developed various implementations of generic data structures to support the generic logging solution for Luminet.
- Substantial focus on unit testing & automated testing methods.
- Co-authored and Delivered a presentation/demonstration of project results to the Luminet Product team.

Computer Science Teaching Assistant, *WWU, Bellingham, WA*   *September 2012 - Present*
- Proctored two labs for Computer Science 140 (Programming Fundamentals in C++)
- Helped students understand fundamental concepts behind the C++ programming language, elementary data structures, basic building and compilation on UNIX systems, and simple sorting/searing algorithms.
- Regularly held office hours & graded laboratory assignments.

iOS Developer & Intern Team Lead, *Emergency Reporting, Bellingham, WA*   *January 2012 - June 2012*
- Developed requirements document and design for Emergency Reporting mobile application.
- Led team of four interns to implement compatible mobile application on iOS and Android platforms.
- Implemented features such as: secure communication across network and encryption/decryption of data (meets Department of Defense Standards), local and cloud database access and storage, and GPS related functionality for way-finding including integration with Google Maps.

Vice President for Business & Operations, *Associated Students of WWU,*   *June 2011 - June 2012*
- Charged with overseeing the internal operations of the Associated Students of Western Washington University (ASWWU) programs, services, and the facilities in which they operate.
- Directly managed six other student managers of departments with 1-20 employees.
- Facilitated organizational budgeting process, assessment process as well as hiring process.
- Specifically responsible for development of fiscal year 2012 operating & non-operating budget (approximately $3.1 million total).

Private Math Tutor, *Self-employed* *September 2008 - Present*
- Privately tutored more than 10 students in Mathematics while at Western Washington University.
- Demonstrated tutoring proficiency in algebra, geometry, pre-calculus, business calculus, single and multi-variable calculus, linear algebra, differential equations, and probability & statistics.

Marketing & Technical Associate, *Caso Inc., San Antonio TX* *June 2010 - January 2011*
- Collaborated with the marketing team to implement search engine optimization of company website.
- Advised a team of leaders from various departments to implement a trial of a new organizational management system intended for data storage of products, project information/status & client records.

Teaching Assistant, *Family House Academy, Kelso, WA* *Summer 2009*
- Taught and tested students, ranging from 7-15, in Math, Reading, Writing, and Physical Education.
- Designed lesson plans and evaluation metrics to gauge student progress.

SELECTED PUBLICATIONS

Chip Jackson, Lucas Bourne, and Travis Peters. "**Computing Along the Big Long River**,"
   The UMAP Journal for Undergraduate Mathematics & Research, Fall 2012, Vol. 33.3,
   The 2012 MCM / ICM Contest Edition. pp. 231-246.

RELEVANT GRADUATE COURSES

Machine Learning	Introduction to Bioinformatics
Computer Vision	

RELEVANT UNDERGRADUATE COURSES

Single Variable Calculus I, II, & III	Analysis of Algorithms I & II
Multivariable Calculus I & II	Computer Organization I & II
Limits & Infinite Series	Database Systems
Systems of Differential Equations	Web Scripting
Linear Algebra I & II	Software Project Analysis & Requirements
Introduction to Proofs via Number Theory	Software Project Design
Proofs in Elementary Analysis	Software Implementation
Introduction to Abstract Algebra	Numerical Computation & Analysis
Mathematical Modeling	Object Oriented Programming in C++
Probability & Statistics	Formal Languages & Automata
Statistical Methods	Unix Software Development
Introduction to Complex Variables	Operating Systems
Historical Perspectives of Mathematics	Principles of Concurrent Programming
Programming & Linear Data Structures	Computer Networks
Discrete Structures & Functional Programming	Cyber Defense Seminar
Data Structures	

TECHNICAL SKILLS

Programming Languages: Java, Python, Matlab, Ruby, C++, Ada, C, Objective-C, PHP, Mathematica, HTML, CSS, SQL, Scheme, Prolog, Haskell, KPL, NASM Assembly Language

Source Control: Git, Perforce

Operating Systems: Mac OS X, Linux, UNIX, Windows

Industry Software/Systems: VMware's vCloud Director, Opscode Chef

Leadership Activities

Graduate Student Council Rep., Dartmouth College Computer Science	*September 2013 - present*
Lead Teacher & RK Coordinator, Redeemer Kids at Redeemer Church	*November 2011 - June 2013*
Chair, AS Management Council & AS Facilities & Services Council	*June 2011 - June 2012*
Vice-Chair, AS Board of Directors & AS Budget Committee	*June 2011 - June 2012*
Member, Academic Honesty Board	*June 2011 - June 2012*
Big Brother, Big Brothers Big Sisters of Whatcom County	*September 2010 - September 2011*

Awards & Honors

Dartmouth Fellowship, Dartmouth College — *2013 - 2014*

Oscar Edwin Olson Scholarship, Western Washington University — *2012*

Outstanding Winner, Frank Giordano Award, Mathematical Contest in Modeling — *2012*
The Mathematical Contest in Modeling challenges students to clarify, analyze, and propose solutions to open-ended problems. The contest included over 3,600 teams from 17 countries around the world. Only 10 teams are selected as Outstanding Winners of the contest.

Kaiser Borsari Scholarship, Western Washington University — *2011 - 2012*

Giusti Scholarship, Western Washington University — *2011 - 2012*

4-year member of Junior Varsity Cross Country, Western Washington University — *2008 - 2011*

4-year member of Varsity Track & Field, Western Washington University — *2008 - 2012*