WILLIAM T. TARIMO

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QUALIFICATIONS

- Combined 8 years of research and technical experience in programming and research (edTech and basic applied robotics).
- Demonstrated expertise in full-stack web development in Ruby On Rails and JavaScript frameworks, with extensive programming and development experiences in Java, Ruby, Matlab, Python, JavaScript, Scheme, HTML5, and CSS3.
- Strategic thinker and fueled by passion in my work. I cherish problem solving, designing, innovating, learning on the go and adapting to multiple roles and changing environments.
- **Looking for full-time jobs in software engineering with focus in scientific research, data science, academia (research & teaching), education technology and robotics.**

EDUCATION

Brandeis University, Graduate School of Arts and Sciences, Waltham, MA — ***Ph.D.*** *Awarded in August 2016*
Dissertation Title: **Computer-Supported Agile Teaching (CSAT)**
Doctoral Fellowship: Teaching & Research Assistantship

Brandeis University, Graduate School of Arts and Sciences, Waltham, MA — ***MA*** *Awarded in February 2014*
Major: **Computer Science** — **GPA: 3.59**
Relevant Courses: Fundamentals of A.I, Networked Information Systems, IT Entrepreneurship & Software Development, Android Development, Statistical Machine Learning, Computational Linguistics, Scientific Computing

Connecticut College, New London, CT — ***BA*** *Awarded in May 2012*
Majors: **Computer Science** & **Mathematics** — **GPA: 3.66**
Relevant Courses: Database Systems, Multimedia, A.I, Algorithms, Robotics, Web Technologies & Mobile Computing, Computer Organization, Operating Systems, Data Structures, Python, Probability, Linear & Abstract Algebra, Calculus II & III, Real & Complex Analysis, Discrete Mathematics, Mathematical Statistics

TECHNICAL PROFICIENCIES

Programming: Ruby On Rails, Python, Java, Matlab, SQL, NoSQL, HTML5, CSS3, JavaScript, JQuery, Scheme, PHP, XML, Node.JS, XQuery, AngularJS, Meteor, Bootstrap, Android Development
Systems: Windows, MacOS, Linux, iOS, Android, GitHub, Bitbucket, CodeShip, Heroku, Git, Express
Other: AI, Machine Learning, Mathematical & Statistical Modeling, Text & Data Mining, Predictive Analytics & Modeling, Algorithms, Regression, Computer Vision, Image Processing, LaTex, Simulation, Pattern Recognition, Leadership, Database Design & Scripting, Software Project Design & Management, Applied Robotics, Full-Stack Web Development, Customer Service, IT Service, Agile & Scrum Methodologies, Entrepreneurship, Pedagogy Design, Education Technology, Technical Research & Writing, Teaching & Mentoring, Quantitative & Qualitative Analytics, *Self-Taught Stock Trader*
Language: English - Fluent, Swahili - Native, Spanish - Conversational, Khmer - Beginner

PROFESSIONAL EXPERIENCE

Department of Computer Science, Brandeis University, Waltham, MA — *Sept 2012 – Present*
Doctoral Researcher & Teaching Assistant

- Conduct research in the areas of educational technology, agile pedagogy and learning analytics
- Develop TeachBack, an in-class web application for active computer-mediated interactive pedagogies
- Assist teachers and students to adopt *flipped* classroom teaching and learning using TeachBack
- Regularly present and publish doctoral research works in education and edTech conferences
- A hands-on Ph.D./admin teaching assistant in courses that taught web & mobile development in Ruby On Rails, JavaScript, Cordova Phonegap, AngularJS, Node.JS, and Meteor; and programming courses in Java & Python

Boston Solutions Center, MassMutual Financial Group, Boston & Springfield, MA — *May 2015 – Aug 2015*
Academic Coop-Intern

- Served as an Assistant Researcher and Associate Knowledge Architect
- Provided technical support and expertise in designing and building a NoSQL cognitive computing knowledge base
- Ran two sprints to refine the product in response to user feedback and company vision
- Trained and managed new co-ops on the on-going work and development technology stack

Computer Science Department, Connecticut College, New London, CT — *May 2010 – May 2012*
Researcher & IEEE Member

- Developed a robotics training system using wireless communication, simulation, image processing, and overhead camera
- Studied, designed and developed Cyclic Genetic Algorithms (CGA) for gait generation for 4 & 6-legged servo-robots
- Conducted studies on the effects of adding 'greedy genetic selections' on Cyclic Genetic Algorithms
- Reviewed papers and chaired sessions at SMC 2011 conference

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Information Services, Connecticut College, New London, CT *Aug 2008 – Aug 2012*
IT Service Assistant
- Provided technical support to the college community on computer software and hardware problems
- Mastered customer support over the phone, in-person, email, IM and the WebHelpDesk online system
- Assisted and collaborated with IS staff with operational and project-based tasks on new features and software

Computer Science Department, Connecticut College, New London, CT *Sept 2009 – May 2012*
Teaching Assistant & Robotics Lab Manager
- Assisted instructors and students in courses that taught Python, Java, Scheme and LEGO programming
- Organized a robotics lab, managed parts inventory, and assisted in ordering new supplies

NOTABLE TECHNICAL PROJECTS

***TeachBack* – Brandeis University** *Jan 2013 – Present*
- A Ruby On Rails web application for classroom use to support classroom interactions such as feedback, forum, assessment, collaboration, note-taking, and collection & analysis of student progress.
- **Notes:** Doctoral Work. Agile Development, automated deployment and scaling using CodeShip & Heroku
- **Technologies:** Ruby On Rails, JavaScript, Bootstrap, Git, Pusher, Heroku, CodeShip, JQuery, Gravatar, PostgreSQL

***Recreating Images Using Transparent Overlapping Polygons* – Brandeis University** *Jan 2013 – May 2013*
- Used genetic algorithm and hill-climbing theories to machine-learn optimal attributes and arrangements of transparent overlapping polygons that recreates a target image
- **Notes:** Team-based Class Project. Played lead roles on project proposal, planning, coding, and AI.
- **Technologies:** Matlab, Matlab Image Processing Toolkit

***Classifying Yelp Data* – Brandeis University** *Jan 2013 – May 2013*
- Performed experiments to discover the best classifiers for a large amount data from Yelp ratings. Explored various classification method learned in the Statistical Machine Learning class.
- **Notes:** Team-based Class Project. Feature Selection, Down-sampling, Model Evaluation, Managing Datasets.
- **Technologies:** Weka with Random Forest (RF), Support Vector Machine (SMO), AdaBoost.M1, Logistic Regression, Bayesian Networks

***BrandITE* – Brandeis University** *Jan 2013 – May 2013*
- A simple, mobile friendly JavaScript web application for voting and managing discussion topics for the BrandITE club
- **Notes:** Personal Project. Used Parse, a cloud-based backend for mobile and web applications
- **Technologies:** Parse, JavaScript, JQuery, JQuery Mobile, NoSQL

***CFC Score Predictor* – Connecticut College & Brandeis University** *Jan 2012 – May 2012 & Sept 2012 – Dec 2012*
- A simple application and game allowing Chelsea FC fans to predict scores for soccer games
- **Notes:** 2 Individual Class Projects. First was a PHP web application. Second was in Python, with full graphical interface
- **Technologies:** Python, PHP, MySQL, PHP-Server, File IO, Image Processing, CSS3, HTML5, JavaScript, Session Storage

***Cyclic Genetic Algorithms & PAL with Fitness Biasing* – Connecticut College** *Sept 2010 – May 2012*
- Developed a machine learning system that utilizes machine learning using a computer simulation of a robot, wireless communication and an over-head camera vision to learn control programs for on-ground legged robot.
- **Notes:** Undergraduate Research. Used Cyclic Genetic Algorithm, Punctuated Anytime Learning, Fitness Biasing theories
- **Technologies:** Matlab, Scheme, Basic Stamp II, XBee, Power Tethering, Servo Motors, Robot Construction, IP Camera, Image Processing

LEADERSHIP & VOLUNTEERING EXPERIENCES

Club Memberships
- BrandITE (Brandeis IT Entrepreneurship Lunch and Learn) – Brandeis University *Jan 2013 – Dec 2013*
- Students Taking Action to Fight Fistula (STAFF) – Connecticut College *Sept 2008 – May 2012*
- African Student Union (ASU) – Connecticut College *Sept 2008 – May 2012*
- International Students Club) – Connecticut College *Sept 2008 – May 2012*

Student Advisory Board (SAB) President – Computer Science Department, Connecticut College *Sept 2011 – May 2012*

AWARDS

- The Computer Science Award for excellence in research, academics, and service: Connecticut College *Jan 2012*
- Dean's High Honors & Dean's Honors: Connecticut College *Sept 2008 – May 2012*
- Davis Scholar: Connecticut College *Sept 2008 – May 2012*
- KECK Research Grant Recipient: Connecticut College *May 2010*
- United World College (UWC) Scholar: Waterford Kamhlaba UWC-SA *Jan 2006 – Dec 2007*