

Timothy Ledlie

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www.timledlie.org

Education	Harvard University, 2002 Computer Science BA with honors, minor in music theory
Experience	<p>2006-2008 Broad Institute <i>Cambridge, MA</i> Software Engineer</p> <ul style="list-style-type: none">Designed and implemented a linear program algorithm to optimize primers for viral genomic sequencingLead Annotation Informatics group in Viral Sequencing Project, including interaction with biologists, DNA sequencing specialists, external collaborators, and project managersCoordinated and executed semiweekly software releases for my 15-member teamLearned Python, Java, Oracle, test-driven development, and writing programs in a pipeline paradigm for distribution over a 300-node computing cluster <p>2002 – 2006 Quad Bikes, Inc. <i>Cambridge, MA</i> Non-Profit Founder and Director</p> <ul style="list-style-type: none">Established Quad Bikes, the non-profit bicycle shop for the Harvard communityHired, trained, and supervised a 14-person staff and managed a \$100,000 annual budgetManaged inventory, accounting, customer service, advertising, market research <p>2002 – present <i>Cambridge, MA</i> Web Programming Consultant</p> <ul style="list-style-type: none">Worked with Harvard departments to create online systems for receiving and collaboratively evaluating job applications using Linux, Apache, MySQL, Oracle, and PHPCollaborated closely with clients to develop complete, customized web sites <p>Summer 2001 Microsoft Corporation <i>Redmond, WA</i> Software Engineer</p> <ul style="list-style-type: none">Developed C++ graphical Windows application for analyzing trace logs, configured through Windows Registry <p>Fall 2000 Harvard University <i>Cambridge, MA</i> Introductory Computer Science Teaching Fellow</p> <ul style="list-style-type: none">Prepared and taught weekly sections, wrote evaluative standards, graded assignments and examsGuided students through assignments in C on Unix covering pointers, data structures, recursion, compression <p>Summer 1999 Grasp Robotics Lab, Univ. of Penn. <i>Philadelphia, PA</i> Software Engineer</p> <ul style="list-style-type: none">Developed algorithms to control robotic dogs in the RoboCup soccer tournamentSpecialized in goalie strategy, positioning, and decision-making in a noisy environment, using C++
Coursework	<p>CS Coursework: AI (planning, search, inference, and modeling), graphics, data structures and algorithms, computability and complexity theory, architecture; programming in C, C++, Java, and Lisp.</p> <p>Highlight Projects:</p> <ul style="list-style-type: none">Automatic chorale harmonizer in the style of Bach using Markov chains and constraint satisfactionExtended a pinhole camera ray tracer to include a model of a lens and depth of field <p>Other Coursework: biology, mechanics and relativity, economics, probability and statistics, linear algebra</p>
Awards	<ul style="list-style-type: none">John Reardon Jr. Award for excellent scholarship, character, leadership, and athletic ability finalist, '02John Harvard Scholarship for Group I academic record (3.76 GPA), '00-'01Harvard Department of Engineering and Applied Sciences Teaching Fellow award finalist, '00Haverford School Excellence in Music Award, '98
Activities	<ul style="list-style-type: none">Bicycles: Certified instructor of cycling safety and skills, Cambridge Bike Committee member and bike tour planner, Bikes Not Bombs board of directors, self-led cycling trips through Scandinavia and US coasts, YMCA cycling and public service trip leaderMusic: Harvard Glee Club, conductor of Harvard Flute Ensemble, small vocal ensembles, music theorySports: Harvard Varsity squash team, Boston and San Francisco ultimate frisbee leaguesWorld Travel: 5-month independent trip through Taiwan, Thailand, Laos, Cambodia, Nepal, Turkey, France, UK