What does this position entail?

- Do you want to build quantitative models millions of people will use, based on data from the world's largest online laboratory? Are you passionate about formulating relevant questions and producing solutions to initially ill-defined problems? Do the challenges and opportunities of terabytes of data excite you? Can you think abstractly and apply your ideas to the real world? Can you contribute to the big picture and are not afraid to handle the details?
- We are looking for people with the right blend of vision, intellectual curiosity, and hands-on skills, who want to be part of a highly visible, entrepreneurial team

http://www.ph.tn.tudelft.nl/PRInfo/jobs/msg00185.html

Genome Revolution: COMPSCI 006G

16.1

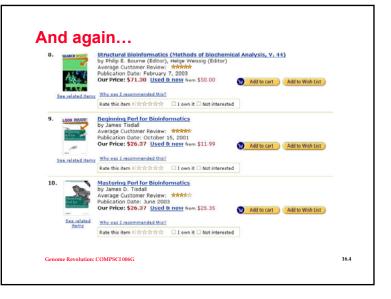
What is this about?

- Ideal candidates will have a track record of creating innovative solutions, and typically a Ph.D. in computer science, physics, statistics, or electrical engineering. Significant research experience is desired in fields including active learning, probabilistic graphical models and Bayesian networks, data mining and visualization, Web search and information retrieval, judgment and decision making, consumer modeling, and behavioral economics.
- What is data mining? What is machine learning?

Genome Revolution: COMPSCI 006G

16.2







What is the Internet? • The Internet was originally designed as an "overlay" network running on top of existing phone and other networks. It is based on a small set of software protocols that direct routers inside the network to forward data from source to destination. while applications run on the Internet to rapidly scale into a critical global service. However, this success now makes it difficult to create and test new ways of protecting it from abuses, or from implementing innovative applications and services. http://www.intel.com/labs/features/idf09041.htm

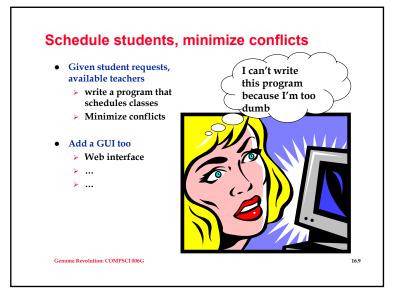
16.6

Genome Revolution: COMPSCI 0060

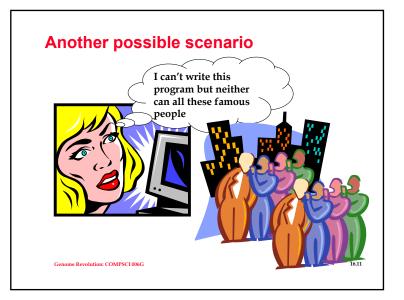
How does the Internet work? • Differences between the Internet and phone networks > Dedicated circuits/routes > Distributed, end-to-end • Where is the intelligence? > Not in the network, per se, in the design and the ends > End-to-end Arguments in System Design • Success of email, web, etc., relies on not building intelligence into the network > What about overlay networks? What about PlanetLab? Genome Revolution: COMPSCI 006G

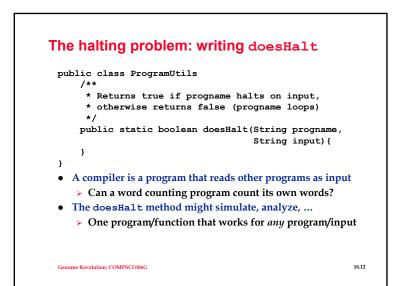
16.7

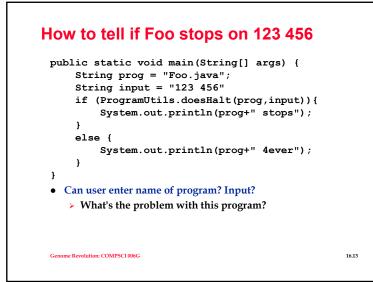
What can be programmed? • What class of problems can be solved? G5, 1000Mhz Pentium III, Cray, pencil? > Alan Turing proved some things, hypothesized others · Halting problem, Church-Turing thesis • What class of problems can be solved efficiently? Problems with no practical solution · What does practical mean? > Problems for which we can't find a practical solution · Solving one solves them all Would you rather be rich or famous? Genome Revolution: COMPSCI 0060 16.8

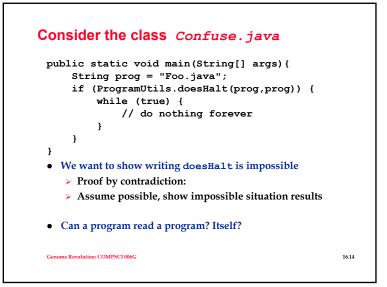












What's a meta catalog? Top 10 sites? Onsider a website of interesting sites Does the website list itsel? Is this a problem? Consider a website that lists every useless website Would this be a useful resource? Does the website list itsel? What about a site of all the sites that list themselves? What about sites that don't list themselves? nolist.com State state of all the sites that list themselves?

