JAKE CUI

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PROFESSIONAL SUMMARY

I am a freshman at Harvard College planning to concentrate in computer science. I am passionate about technology, experimental therapeutics, computer science, and biomedical discovery.

EDUCATION

HARVARD COLLEGE
Cambridge, MA
Computer Science
August 2016 – Present

- Current freshman interesting in pursuing computer science or applied mathematics
- Undeclared concentration

THOMAS JEFFERSON HIGH SCHOOL FOR SCIENCE AND TECHNOLOGY
Alexandria, VA
Student
September 2012 – May 2016

- Biotechnology Club President, Student Government, Debate, Science Olympiad
- 4.44/4.0 GPA
- SAT: 2340 (R: 800 W: 740 M: 800)

EXPERIENCE

CURE FORWARD CORPORATION
Cambridge, MA
Strategies Intern
June 2016 – August 2016

- Cure Forward is a new service that seeks to connect patients who are keen to try experimental treatments for their cancer with researchers who may be looking for subjects with their genetic pathology.
- Shadowed and interned with company CEO
- Worked in marketing, product management, and customer support

KICKUP FOR EDUCATION
Washington, D.C.
Paid Intern
February 2016 – April 2016

- KickUp is an analytics platform that helps professional development teams synthesize feedback, take action to support teachers, and report on impact over time.
- Worked remotely with development and marketing teams
- Specialized in data processing and client outreach

BOSTON CHILDREN'S HOSPITAL
Boston, MA
Research Intern
June 2015 – August 2015

- Worked at Harvard Medical School's Children's Hospital Informatics Program as a part of the Research Science Institute at MIT.
- Using machine learning, I created a program that can identify specific regions on ordered proteins that bind to intrinsically disordered proteins.
- Worked under the mentorship of Dr. Gil Alterovitz, Supervising Scientist

GEORGETOWN UNIVERSITY
Washington, D.C.
Research Intern
June 2014 – August 2014

- Worked at Georgetown University's Center for Drug Discovery located within the Lombardi Comprehensive Cancer Center.
- Successfully synthesized an anticancer prodrug that had the ability to simultaneously track and treat cancerous tissue.
- Worked under the mentorship of Dr. Yali Kong, Supervising Scientist

HONORS AND ACHIEVEMENTS

2016 Intel STS National Semifinalist (300 in the US), Research project on predicting ordered protein binding sites with machine learning.

2016 Intel International Science and Engineering Fair (ISEF) 4th Grand Prize Category Winner, research in a machine learning algorithm to predict intrinsically disordered protein binding

2015 Selected as a Research Science Institute (RSI) Scholar (one of 80 students worldwide) by the Center for Excellence in Education (CEE).

2014 Google Science Fair Regional Finalist, Research project on improving chemopreventive cancer treatment.

2016/15/13 Intel International Science and Engineering Fair (ISEF) Finalist, research in concurrent cancer treatment and monitoring.

2015 Junior Science and Humanities Symposia (JSHS) Virginia state finalist, Outstanding Research in Medicine and Health.

2016/15/13 Fairfax County Regional Science and Engineering Fair Grand Prize and First Place Winner in Medicine and Health Sciences & Biochemistry.

- Distinguishing Achievement 1st Place Award from United States Public Health Service
- Bright Future Award

2015 Virginia Junior Academy of Science (VJAS)

SKILLS AND INTERESTS

Technical Experience: Java, Python, R, Machine Learning, Data Mining, PyMol, LaTeX, JavaScript, HTML, Unix/Linux, App Development, Microsoft Word, Microsoft PowerPoint, Microsoft Excel, TI Graphing Software

Coursework: AP Chemistry, AP Biology, AP Computer Science, AP Calculus BC, Artificial Intelligence, AP US History, AP Chinese, Design & Technology, Mobile App Development, Multivariable Calculus, AP Microeconomics, AP Macroeconomics, AP English Language, AP Comparative Government and Politics, Geosystems