

Simon Warchol

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Education

Harvard John A. Paulson School Of Engineering And Applied Sciences

PHD IN COMPUTER SCIENCE, ADVISOR: PROF. HANSPETER PFISTER

- Topic: Visualization and Visual Analytics for Biomedical Imaging Data

Cambridge, MA

Sep. 2021 - Current

Harvard John A. Paulson School Of Engineering And Applied Sciences

MASTER OF ENGINEERING IN COMPUTATIONAL SCIENCE & ENGINEERING, ADVISOR: PROF. HANSPETER PFISTER

- Advisor: Prof. Hanspeter Pfister
- 4.0 / 4.0 GPA

Cambridge, MA

Sep. 2019 - May 2021

Tufts University

BACHELOR OF SCIENCE

- Magna Cum Laude
- Major: Computer Science; Minor: Economics

Medford, MA

Sep. 2011 - May 2015

Experience

Takeda Research

SOFTWARE ENGINEER

- Working on visualization and visual analytics for the Cell Therapies team.
- Developing Angular frontend components and a FastAPI backend.

Cambridge, MA

Bullhorn, Inc.

SOFTWARE ENGINEER

- Developed "Sync," an Express NodeJS web application that integrates applicant tracking systems and vendor management systems.
- Created Angular dashboards to display critical information to customers using Chart.js and the Google Maps API.
- Created a work controller to handle high-volume API requests and predicatively scale servers using PM2.

Boston, MA

Jul. 2018 - Aug. 2019

DEVOPS ENGINEER

- Implemented Netflix Spinnaker continuous delivery platform to deploy Bullhorn's Docker-based applications to Kubernetes clusters, drastically increasing scalability and streamlining the delivery pipeline.
- Created test and build tools in Jenkins using Apache Groovy and Python.

Nov. 2017 - Jul. 2018

TECHNICAL OPERATIONS ENGINEER

- Created a suite of customer engagement reports in Microsoft Reporting Services to help our Product and Customer Success teams understand how users interact with our application and identify at-risk clients.
- Developed Java Web Applications built on the Spring Framework for our Professional Services team, adding additional functionality to the Bullhorn ATS at the request of our largest customers.

Nov. 2015 - Nov. 2017

Visual Analytics Laboratory at Tufts

RESEARCH ASSISTANT

- Worked in conjunction with a team at the University of Michigan to analyze an extensive data set of infographics to determine which factors yield a more effective visualization.

Medford, MA

Sep. 2014 - Dec. 2014

Teaching

Harvard John A. Paulson School of Engineering and Applied Sciences

TEACHING FELLOW FOR CS171: VISUALIZATION

- Designed and weekly homework assignments in addition to office hours and grading.
- Awarded Harvard Q Award of Distinction and Excellence in Teaching

Cambridge, MA

Sep. 2021 - Dec. 2021

Harvard John A. Paulson School of Engineering and Applied Sciences

TEACHING FELLOW FOR CS205: COMPUTING FOUNDATIONS FOR COMPUTATIONAL SCIENCE

- Designed and taught weekly labs about parallel and cloud computing in addition to office hours, assignment creation, and grading.
- Awarded Harvard Q Award of Distinction and Excellence in Teaching

Cambridge, MA

Jan. 2021 - May 2021

Harvard John A. Paulson School of Engineering and Applied Sciences

TEACHING FELLOW FOR AC207: SYSTEMS DEVELOPMENT FOR COMPUTATIONAL SCIENCE

- Taught weekly sessions regarding the development of scientific python packages in addition to office hours, assignment creation, and grading.
- Awarded Harvard Q Award of Distinction and Excellence in Teaching

Cambridge, MA

Aug. 2020 - Dec. 2020

- Assisted Data Structures students in their understanding of course concepts, including sorting algorithms, hashing, trees, stacks, queues, and linked lists.
- Helped students plan out and debug course assignments and projects written primarily in C++.

Publications

Scope2Screen: Focus+Context Techniques for Pathology Tumor Assessment in Multivariate Image Data

J. Jessup, R. Krueger, S. Warchol, J. Hoffer, J. Muhlich, C. C. Ritch, G. Gaglia, S. Coy, Y. -A. Chen, J. -R. Lin, S. Santagata, P. K. Sorger, H. Pfister

IEEE Transactions on Visualization and Computer Graphics (2021) pp. 1–1. 2021

Honors & Awards

2021 **6-Year PhD Fellowship**, Harvard University

Cambridge, MA

2021 **Harvard University Certificate of Distinction in Teaching**, Q Award of Distinction and Excellence in Teaching for Role as Teaching Fellow for CS171: Visualization

Cambridge, MA

2021 **Harvard University Certificate of Distinction in Teaching**, Q Award of Distinction and Excellence in Teaching for Role as Teaching Fellow for CS205: Computing Foundations for Computational Science

Cambridge, MA

2020 **Harvard University Certificate of Distinction in Teaching**, Q Award of Distinction and Excellence in Teaching for Role as Teaching Fellow for CS107: Systems Development for Computational Science

Cambridge, MA

2011-2015 **Tufts University Dean's List**, Fall 2011, Spring 2012, Spring 2013, Fall 2014, Spring 2015

Medford, MA

Leadership

Harvard University Graduate School of Arts and Sciences Student Council

Cambridge, MA

DEPARTMENT REPRESENTATIVE

Jan. 2020 - May 2021

- Represented the Institute for Applied Computational Science and Computational Science & Engineering students on the Graduate Student council.

Baseball Analysis at Tufts

Medford, MA

PRESIDENT & TREASURER

Jan. 2012 - May 2015

- Performed extracurricular statistical baseball research and data analysis.
- Visualized the results of these analyses and present them to fellow Sabermetricians and MLB executives.
- Compete in the SABR Analytics Conference Case Competition as part of Tufts' Baseball Analysis team.