

Kate Stryker McManus

design | creative coding | data visualization

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EDUCATION

Carnegie Mellon University

Master of Human-Computer Interaction

Cumulative GPA: 3.9

August 2016 - August 2017

The Colorado College

B.A. Computer Science Major, Film Minor

Cumulative GPA: 3.7

September 2009 - May 2013

NYU School of Professional Studies

Data Visualization Programming Course

October - December 2015

SKILLS

Development

JavaScript/jQuery, d3.js, HTML/CSS,
Processing, Github

Tools

Adobe Creative Suite, Sketch,
Final Cut Pro, Invision

Design

UX/UI, Rapid Prototyping, Responsive Web,
Typography, Interaction, Layout, Branding &
Identity, Visioning, Wireframing, Customer
Journey Maps, Storyboards, Print

Usability Testing

Heuristic Evaluation, Think-Alouds,
Paper Prototyping

User Research

Interviews, Contextual Inquiry, Competitive
Analysis, Affinity Diagramming, Sequence
Modeling, Surveys, Personas, Scenarios

HONORS & AWARDS

Vijks won "Best Project Award"

for Data Visualization in HCI final 2017

Mortar Board Honor Society 2013

Blue Key Honor Society 2013

Math behind Poker Class Champion 2012

Selig Fund for Global Study 2011

EXPERIENCE

NASA MHCI Capstone | Technical Lead

January - August 2017 • Mountain View, CA

Designed, developed, user-tested and rapidly iterated on web application prototype to address 3 problems that face firing room personnel during launch countdown.

Researched launch scenarios/personnel and analogous domains extensively to derive meaningful insights to inform project.

Stroz Friedberg | Information Design Specialist

March 2014 - July 2016 • New York, NY

Spearheaded design and prototyping of client-facing dashboard to empower Chief Security Officers to evaluate the health of their company's security. Collaborated with CISO to produce and present 9 revealing and intuitive dashboard metrics.

Interviewed Technicians and Digital Forensics experts to understand their outdated data entry processes for managing client evidence. Designed and developed internal web application to standardize, automate, and replace their system.

Created 50+ visualizations to convey complex technical findings to a variety of high-profile clients.

Freelance | Designer & Developer

December 2013 - October 2016 • Pittsburgh, PA

Produced graphics ranging from a brochure for Stroz Friedberg's Marketing team to illustrative images for The Juilliard School's CIO's book on measuring vulnerability to data compromises.

Designed and developed 4 websites for a diverse set of clients.

Montana State University | Computer Science Researcher

Summer 2012 • Bozeman, MT

Introduced 2 algorithms, OddCover and JointOdd-Cover, with theoretical performance guarantees for efficient routing paths in large computer networks and data centers.

Published findings in IEEE GC Workshop 2015.

PROJECTS

Vijks; Visualizing the Rijksmuseum | Designer & Developer

April - May 2017 • Pittsburgh, PA

Implemented 4 novel ways for users to remotely experience the Rijksmuseum's iconic paintings using d3.js.

Presented as a public art installation at IEEE Vis conference.

Evolving Meanings & Usage of Words | Developer

April - May 2017 • Pittsburgh, PA

Explored the evolution of 2 words published in the New York Times and what they reveal about America's values over time.