New York, NY brandon@brandonreiss.com

Experience

Co-Founder & Head of Engineering, Frame.ai New York, NY

• Frame helps companies understand and act on thousands of conversations every day by unifying data across chat, voice, and email channels and identifying important moments using a state-of-the-art NLP data enrichment pipeline fed to a flexible analytics interface

Software Engineering Manager, Knewton New York, NY

- Manager of Core Engineering and Adaptive QA Tools teams responsible for scaling data science models and QA introspection tools to support 10M+ students
- Strong leadership on team values, project purpose, vision, and team accountability
- Mentorship of engineers in critical areas of design, communication, and technical implementation
- Delivered ssh tunnel management code for QA tools decreasing latency for simulations from hours to minutes
- Contributed SQL queries and Looker dashboard UIs to enable monitoring of proficiency model performance

Lead Software Engineer, Knewton

New York, NY

- Contributed to numerical optimization code selecting optimal paths to target assignments given a deadline
- Lead team responsible for debugging system integration with Houghton Mifflin Harcourt as the first Knewton API product and a major milestone in re-usability of ranker components
- Lead design and implementation for batch processing of proficiency model parameters used to improve student response prediction

$Software\ Engineer,\ Knewton$

New York, NY

- Implemented state-of-the-art recommender for educational content including computational framework and statistical models
- Developed tools and procedures used for recommendation QA

Software Engineer, Organic Motion

New York, NY

- Developed tracking methods including score-based sampling used to select best-fit bone orientations, multiactor activity detection, and 3d data segmentation
- Debugged and made production-ready statistical mixture model used for background segmentation
- Designed and implemented software licensing mechanism based on public/private keys and block cipher encryption along with tools to fingerprint hardware and maintain license databases
- Designed and implemented internal website for automated testing of CI software builds and comparative analyses of motion tracking results
- Developed multi-process Canon EOS camera controller and UI for a vision-based 3d scanner
- Developed distributed architecture for prototype gait analysis motion capture system having 40 cameras spread across 5 compute nodes
- Designed and constructed modular, backlit panels used for a portable motion capture system featured at SIGGRAPH 2008, Intel Core i7 launch, and Popular Mechanics Breakthrough Awards 2008

Software Engineering Intern, Organic Motion New York, NY

- Designed LED calibration wand made from a machined aluminum base and off-the-shelf flashlight parts
- Designed custom LED camera control boards for shutter-synchronized illumination and molded aluminum housings for cameras and LED boards

January 2016 — Present

May 2014 — December 2016

Oct 2013 — May 2014

Sept 2012 — Oct 2013

Jun 2008 — Sept 2012

Jan 2007 — Jun 2008

• Developed embedded system OS image and front-panel LCD control software for system maintenance

 $IT \ Technician, \ Zamir \ Computer \ Consulting$

New York, NY

• Delivered on-site service to commercial and residential clients all over New York City

• Installed, configured, and maintained enterprise software systems and network hardware

Undergraduate Research Assistant, Rensselaer Polytechnic Institute Troy, NY

- Co-author of April 2006 article in Applied and Environmental Microbiology
- Contributed to research in isolating Dehalococcoides microorganisms responsible for the reductive dechlorination of poisonous PCB chemicals
- Used PCR, DNA sequence analysis, and gas chromatography to study and classify organisms in culture

Engineering Intern, BAE Systems

Lansdale, PA

- Designed RF-absorbent antenna test facility built December 2005 with \$300,000 budget
- Designed rotating antenna test fixture for phase-clock pairing
- Experimented with classifying radio signal polarization using neural networks

Full Stack Computer Skills

Education

M.S. in Computer Science, focus in Machine Learning	May 2014
New York University, New York, NY \cdot GPA (Cumulative) 3.951	
B.A. in Computer Science and Mathematics, minor in Metropolitan Studies	Jan 2009

New York University, New York, NY · GPA (Cumulative) 3.789 (Major) 3.829

Academic Honors

- 2011–2012 NYU Hedwig Kurzbart Masters Fellow (\$5000)
- 2009 NYU Founders Day Award
- 2009 Graduation honors, magna cum laude
- National Merit Scholarship commended student

References available upon request.

Jan 2006 — Aug 2006

Sept 2004 — May 2005

Summers of 2002 — 2004