

# SAMUEL BRECK

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## EDUCATION

University of Southern  
California, 2015 – 2019

B.S. in Computer Science

## PUBLICATIONS

Kaimakis, N.J., Davis, D.M.,  
Breck, S. & Nye, B.D. (2018).  
"Domain-Specific Reduction of  
Language Model Databases:  
Overcoming Chatbot  
Implementation Obstacles". In  
the Proceedings of the ModSim  
World Conference, Norfolk,  
Virginia.

Breck, S., Carr, K., Davis, D. M.,  
Nordhagen, J. N., and Nye, B. D.  
(2018). "Virtual Mentors in a Real  
STEM Fair: Experiences,  
Challenges, and Opportunities".  
In Third International Workshop  
on Intelligent Mentoring Systems  
(IMS 2018) Proceedings

## SKILLS

Python	■	■	■	■	■
SQL	■	■	■	■	■
Excel	■	■	■	■	■
UX Research	■	■	■	■	■
UI Design	■	■	■	■	■
Web Dev	■	■	■	■	■
Prompting	■	■	■	■	■

## WORK EXPERIENCE



Flow

Senior Product Manager | NYC, NY | June 2025 – Present

Reimagining proptech through a hospitality lens by building human-centered products that transform resident and operator experiences to maximize LTV.



Valon

Product Manager | NYC, NY | Jan 2022 – Feb 2025

- Onboarding** - Enhanced loan transfer experience through improved data quality automation.
- Built a proactive data and document platform with human-in-the-loop workflows that shifted operations from reactive firefighting to preventive oversight, cutting onboarding time by 75% (100 to 25 hrs per 10K loans) and enabling the business to grow from XXX to XXXX loans,
  - Cut document extraction costs by 90% and training time from weeks to hours by replacing traditional 3P vendor with a vision/LLM-powered platform with self-service configuration.

- Delinquency** - Helped homeowners navigate financial hardships toward stability.
- Drove \$0.20/loan/month in savings through collections dialer optimization and eligibility API
  - Reduced property inspection order time time by 42% (5 to 2 mins) through automation.
  - Built 0 to 1 products for many specialized delinquency scenarios such as Property Preservation/Litigation, Homeowner Assistance Fund (distributed over \$1.6M in aid), and Disaster Management, streamlining our operations and reducing processing times.



Microsoft

Product Manager | Bellevue, WA | Sep 2019 – Dec 2021

- Microsoft Search in Bing** - Enabling users to find relevant results across their organization and the web content across integrated web/desktop/O365 surface areas
- Built advanced rule-based enrichment platform for Microsoft Graph connectors to increase search breadth and quality.
  - Increased user engagement through A/B testing results layouts and automated acronym extraction that enhanced query understanding.

**Core Services Engineering** - Built an automated remediation system for non-compliant network devices, reducing mean time to resolution in partnership with Redhat, Cisco, and MS Networking.



Bloomberg

Software Engineer | NYC, NY | May 2018 – Aug 2018

Developed an automation pipeline for translating unstructured Earnings/Economic Data into a structured format for the Bloomberg News Automation Team.



PlayStation

Software Engineer | SF, CA | May 2017 – Aug 2017

Launched PS Store Search 2.0 and COPPA-compliant Credit Card validation feature for the PlayStation Store, delivering enhanced search and payment security to over 60 million customers.



USC ICT

Student Researcher | Playa Vista, CA | Oct 2017 – May 2018

Engineered compressed NLP model achieving 61% Q/A accuracy (up from 47%) with 70% reduction in corpus size for mentorpal.org.

## PROJECTS

Boxi

React, Node, SQL, AWS | Apr 2020 – Aug 2021

Revamped and developed new landing page for boxi.co to increase partnerships and driver signups. Oversaw development of client dashboard for route tracking, impressions, and mileage monitoring.

Duet

React, Node, SQL | Jan 2019 – May 2019

Developed full-stack donation and inventory management platform for giveduet.org, enabling direct support for resettled refugees.

Tommy Bot

Python, Node, MongoDB | Jan 2017 – Feb 2018

Launched USC campus assistant chatbot handling building locations, dining menus, and events. Achieved 50,000+ interactions and secured \$10,000 in funding from USC Iovine and Young pitch competition.