SAMUEL BRECK

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EDUCATION
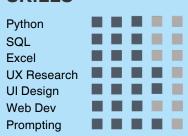
University of Southern California, 2015 – 2019

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

Building hospitality products focused on improving customer experience to maximize LTV.

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

Onboarding/Offboarding - Simplify and enhance the loan transfer experience through best-in-class data quality, ensuring a smooth transfer experience for organizations and homeowners alike.
- Facilitated growth of the business by onboarding XXK to XXXK loans, enabled ~XXM in ARR.
- Led the development of a data platform product suite that includes data validations, data update tooling, and a document management system that cut down ops onboarding time spent boarding by 75% (100 → 25 hrs per 10K loans) and eliminated repeated data incidents.
- Reduced EngOps by 86.6% (30 → 4 hrs per 10K loan) by prioritizing tech debt reduction projects and empowering users with self-service capabilities.

Delinquency - Enable homeowners to navigate financial hardships with tooling and resources that support their journey toward stability.
- Led optimization projects such as collections dialer parallelization/eligibility API (contributed ~ $0.20/loan/month) and property inspection automation, reducing time spent ordering by 41.90% (5 → 2 mins per inspection).
- 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 for their organization and the web across web/desktop/O365 surface areas,
- Developed a feature to bring advanced rule-based enrichment for Microsoft Graph connectors,
- Increased engagement through user enhancements by A/B tests with layout experimentation and mined acronyms.

Core Services Engineering - Led integrations with our Developer Platform to automate network configs with select partners, such as RedHat, Cisco, and Azure Networking, reducing configuration time for non-compliant devices

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

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

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

Launched PS Store Search 2.0 and COPPA Credit Card validation feature for the PlayStation Store team on the PS4 console to over 60 million customers.

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

Developed a data-processing pipeline at USC Institute for Creative Technologies to capture and digitize the life experiences of STEM mentors for mentorpal.org. Boosted accuracy from 47% to 61%

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 and launched donate, checkout, and inventory process for non-profit organization, giveduet.org as part of senior capstone project. Duet is a website to help people provide direct support to resettled refugees.

Tommy Bot — Python, Node, MongoDB | Jan 2019 – Feb 2018

Messenger chatbot for all things related to USC (building location/hours, menus, events, etc.). 50,000 total interactions since launch and $10,000 in funding from USC Iovine and Young pitch competition.