Samuel Breck

samuelbreck.com   codeon19

Professional Experience

Bloomberg LP
Software Engineering Intern
Summer 2018
New York, NY
- ➤ Automated live release Earnings/Economic Data into tables for the Breaking News Team
- ➤ Full-stack application developed in Bloomberg technologies, JavaScript (R+), Python (BAS), and SQL (Comdb2)

USC Institute for Creative Technologies
Student Researcher
Fall 2017 – Spring 2018
Playa Vista, CA
- ➤ Developed pipeline for capturing the life experiences of STEM mentors into a project called MentorPal
- ➤ Helped implement, train, and reduce an NLP model to provide a more immersive and streamlined experience

PlayStation
Software Engineering Intern
Summer 2017
San Francisco, CA
- ➤ Planned, developed, tested, and launched minor/major features for the PlayStation Store team on the PS4 console
- ➤ Worked as front-end developer on new search interface using XML/CSS, Web GL, and a custom JavaScript framework
- ➤ Eliminated various defects/bugs with the PlayStation Store

Prospect Silicon Valley
Project Management Intern
Summer 2016
San Jose, CA
- ➤ Developed demo applications that connected Prospect Silicon Valley's Intelligent Transportation Lab and fka Silicon Valley's Simulation Lab (fka SV is an associated research group with Aachen University)
- ➤ Streamlined the client onboarding system and integrated various lead pipelines

Campus Involvement

Los Angeles Community Impact
VP of Internal Relations and Team Leader
Fall 2015 – Present
Los Angeles, CA
- ➤ Pro-bono consulting club at USC (five-time recipient of USC org of the year), works with NGOs/small businesses
- ➤ As VP of IR, designed databases / processes that aggregated past clients, project deliverables, and school resources to facilitate client acquisition and project operations
- ➤ As a Team Leader, managed a team for the Harold Robinson Foundation

LavaLab
Developer
Fall 2016
Los Angeles, CA
- ➤ USC's highly selective student run product incubator that takes ideas into business plans and working products

Projects

Tommy Bot (Python, NodeJS, MongoDB)
Fall 2016 – Spring 2018
- ➤ Messenger chatbot for all things related to USC (building location/hours, menus, events, etc.)
- ➤ 50,000 total interactions since launch in Jan 2017, $10,000 in funding from USC Iovine and Young pitch competition

eYak (MongoDB, Express, ReactJS, NodeJS)
Spring 2017
- ➤ Web application that combines the interface of Yik Yak and functionality of Piazza into an in-class discussion board
- ➤ Developed at LA Hacks 2017 with MERN Stack, demoed at USC Scope to local CEOs and CTOs of LA startups

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
C++, JavaScript (JQuery/Web GL/Backbone/ReactJS/NodeJS), Python, HTML, CSS, MongoDB, Java (Android), Embedded Systems

Education

University of Southern California, Viterbi School of Engineering
Senior, Bachelor of Science in Computer Science
Dean's List, Academic Achievement Award
Aug 2015 – Present
Los Angeles, CA

Expected Graduation | May 2019
Completed Coursework | Data Structures and OOD/ Algorithms/ Artificial Intelligence/ Discrete Methods in CS/ OS/ Pro C++

Saratoga High School
Graduated with Honors
May 2015
Saratoga, CA

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