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EMAIL

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LOCATION Berkeley, CA

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Bill Zhou

Highlights

- Strong software engineering skills. Winner of Berkeley Skydeck's AR Pitch competition
- Strong teamwork/communication skills. Team lead of open sourced AR project.
- Solid academic background. Dean's Honor. Cal Alumni Scholar. National AP Scholar

EDUCATION

UC Berkeley M.S. EECS Studying computer vision and augmented reality under the supervision of Prof. S. Shankar Sastry and Dr. Allen Yang

Aug 2018 - Present

Thesis: Detecting Fear through Micro-Expressions Towards Machines with Emotional Intelligence

UC Berkeley

B.A. Computer Science

GPA: 3.8 Aug 2015- May 2018

Relevant Coursework: Advanced Architecture and Systems (CS262), OS (CS162), Machine Learning (CS189), Natural Langauge Processing (INFO159) Algorithms (CS170) Awards: Cal Alumni Scholarship, Dean's Honor (Top 4% of undergraduates)

WORK EXPERIENCE

SOFTWARE ENGINEERING INTERN Facebook

Seattle, Washington

- Member of the Search NLP team developing distributed memory capabilities
- Redesigned query expansion component to retrieve NLP models from distributed memory on demand rather than preload into local memory
- Diminished the network impact to +0.3 milliseconds through implementation of massively parallel processing and order agnostic pre-ranking
- Allowed Facebook Search to tailor to trending events within ~15 min rather than hours through enabling real time backend model hot swap

SOFTWARE ENGINEERING INTERN Google

New York City, New York

 Member of the Local Discovery team developing unsupervised language models to capture latent sentiments in user reviews

May 2017 - Aug 2017

May 2018 - Aug 2018

- Developed deep neural network to featurize 5.5 million English review texts into continuous low dimensional vectors
- Increased Google Maps attribute coverage by 14 million across 400,000 unique businesses with vectorized user reviews as an additional inference signal
- Directly impacted the quality of local queries and related places

SOFTWARE ENGINEERING INTERN Salesforce San Francisco, California Member of the Core Infrastructure team developing Salesforce's continuous deployment pipeline May 2016 - Aug 2016

- Implemented new delivery mechanism to prioritize the decompression order of artifacts based on change velocity
- Developed "linked containers" to share common dependencies between multiple application containers while maintaining mutual isolation
- Reduced Salesforce core app (9 GB) deploy time by 40%

PROJECTS

Pengram AR

C# / OpenCV/ Hololens pengramar.com

- Designed and developed a system that allows field technicians and remote experts to collaborate in real time through augmented reality
- Created a cross-platform application that enable users to virtually share their physical workspace
- Led user studies with Siemens, State Grid, and Honda, to understand their painpoints
- World Champion in Mixer Reality category in Microsoft Imagine Cup 2018

OpenARK (Augmented Reality Kit)

C++ / OpenCV / PCL vivecenter.berkeley.edu

- Designed a suite of augmented reality algorithms to enable fluid human interaction with 3D holograms
 - Developed real-time planar surface classification through delaunay triangulation of supervoxels (computes over 110 surface regression models per second).
- Enhanced finger tracking to operate under any lighting condition with false-positive interference
- Demo project created with OpenARK can be found on http://billzhou.me/openark

LEADERSHIP

PRESIDENT

Virtual Reality @ Berkeley vr.berkeley.edu

- Responsible for strategic decision in annual VR convention and development of Berkeley's first AR/VR class (EECS 198)
- Worked to establish industry partnership with Intel, Oculus, Microsoft, Siemens, and DJI
- Past: VP of Operations, Director of Membership

Oct 2016 - May 2018

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