

Bill Zhou

EMAIL

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LOCATION

San Francisco, CA

WEBSITE

billzhou.me

Highlights

- Strong software engineering skills. Experience in industry and research
- Strong teamwork/communication skills. Co-Founder of Y-Combinator backed company.
- Solid academic background. M.S. in Computer Vision. Dean's Honor. Cal Alumni Scholar.

EDUCATION

UC Berkeley

M.S. EECS

GPA: 3.87

Advisers: Prof. S. Shankar Sastry, Allen Y. Yang

Thesis: *Real-time Tracking of Deformable Human Avatars by Fusing Low-Dimensional 2D and 3D Kinematic Models*

Aug 2018 - May 2019

UC Berkeley

B.A. Computer Science

GPA: 3.83

Relevant Coursework: Systems and AI (CS294), 3D Reconstruction (EE290T) Advanced OS (CS262), Machine Learning (CS189), NLP (INFO159)

Awards: Cal Alumni Scholarship, Dean's Honor (Top 4% of undergraduates)

Aug 2015- May 2018

WORK EXPERIENCE

CO-FOUNDER / CTO

PengramAR

Berkeley, California

- Y-Combinator backed (W19 Class) - pengramar.com
- Created camera based indoor navigation and localization solution
- Combined NetVLAD and Superpoint to achieve 5 degree rotation error and 0.6 meter translational error for one shot localization on indoor spaces.
- Secured pilot contract with Johnson Controls to use Pengram in their fire protection business

Aug 2018 - July 2019

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

May 2018 - Aug 2018

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
- 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

May 2017 - Aug 2017

SOFTWARE ENGINEERING INTERN

Salesforce

San Francisco, California

- Member of the Core Infrastructure team developing Salesforce's continuous deployment pipeline
- 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%

May 2016 - Aug 2016

RESEARCH

B. Zhou and S. S. Sastry. *Tracking of Deformable Human Avatars through Fusion of Low-Dimensional 2D and 3D Kinematic Models*. Master's thesis, EECS Department, University of California, Berkeley, May 2019. (Paper - billzhou.me/human | Video - billzhou.me/human_demo)

B. Zhou, A. Yu, J. Menke, and A. Yang. *Real-Time Hand Model Estimation from Depth Images for Wearable Augmented Reality Glasses*. In *Adjunct Proceedings of ISMAR 2019*, Oct. 2019 (Paper - billzhou.me/hand | Video - billzhou.me/hand_demo)