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EMAIL

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LOCATION

Berkeley, CA

WEBSITE

billzhou.me

UC Berkeley

Class of 2018

Computer Science

Bill Zhou

Highlights

- Experience in applied software development. Key contributor to open source AR project.
- Strong teamwork/communication skills. Served in college student government
- Solid academic background. Dean's Honor. Cal Alumni Scholar. National AP Scholar
- Table Tennis National Junior Team Member

EDUCATION

GPA: 3.83

Relevant Coursework: Advanced Algorithms (CS170), Data Structures (CS61B),

Discrete Mathematics and Probability Theory (CS70), Structure of Computer Programs (CS61A), Linear Algebra and Differential Equations (MATH54)

Awards: Cal Alumni Scholarship 2015, Dean's Honor (Top 4% of undergraduates)

PROFESSIONAL SKILLS -----

Languages

Platforms / Tools

Java, C/C++, Python, Perl, SQL, HTML, CSS, PHP, Javascript

Linux, Windows, Android, OpenCV, Qt, Numpy, Git, Jenkins, Maven, Clover, Perforce

WORK EXPERIENCE

SOFTWARE ENGINEERING INTERN

Salesforce

San Francisco, California

- Member of the Core Infrastructure Department developing Salesforce's next generation continuous deployment pipeline
 - May 2016 Present

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- Analyzed origin of load balancer overstress during Salesforce's large product deployments
- 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
- Upgraded production host installation engine with multithreading capabilities to install up to five packages simultaneously
- Reduced Salesforce core app (9 GB) deploy time by 40%

RESEARCHER

Center for Augmented Cognition UC Berkeley, California

- Performed graduate-level research under Dr. Allen Y. Yang to assemble a universal Aug 2015 Present solution enabling human-computer interaction in augmented reality
- Principal architect of *OpenARK*, the first open sourced augmented reality SDK aimed at accelerating AR application development
- Collaborated with a interdisciplinary team of undergraduate and graduate researchers

PROJECTS

OpenARK

(Augmented Reality Kit)

C++ / OpenCV / PCL

- Designed a suite of augmented reality algorithms to enable fluid human interaction with 3D holograms
- Innovated tactile feedback experience in augmented reality
- 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

Traffic Hazard Detection using In-Context Recognition

C++ / OpenCV / Qt

- Created cross-platform system capable of warning drivers of traffic hazards
- Rapidly classified road signs, vehicles, and pedestrians with contour shapes supported by Haar Cascade
- Recognized turn signal by analyzing periodic saturation and luminosity changes on identified vehicles
- Boosted accuracy by isolating areas of likely hazard occurrence based surrounding context

LEADERSHIP

DIRECTOR OF STRATEGY & OPERATION

Virtual Reality @ Berkeley UC Berkeley, California

- Responsible for aligning operational strategies with organizational goals
- Boosted membership and retention rate through diversifying focus from pure research to include art, storytelling, and animations
- Worked to establish partnership with Berkeley Center for Augmented Cognition and gain support from Microsoft, Siemens, and DJI

EVENT COORDINATOR

ASUC SUPERB UC Berkeley, California

- Planned university wide recreational events for students of UC Berkeley
- Worked with contractors to bring large scale games (i.e. laser tag) to campus
- Handled logistics for scheduling, costs, and equipment booking

2016 - Present

2015 - Present