Yuxiang (Ethan) Wang

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SUMMARY STATEMENT

New graduate with hands-on and lab experience working with diverse teams to solve problems through innovation.

PROGRAMMING EXPERIENCE

- *Languages:*
  C/C++, C#, Java, Python, Matlab, Ruby, HTML5, Verilog/System Verilog
- *Platforms and IDEs:*
  Bash script, Unix, Windows, Git, GitHub, Eclipse, Processing, Visual Studio, Android Studio

EDUCATION

University of California, Santa Barbara (UCSB)
B.S. Computer Engineering, Expected: June 2017

- *Computer Science*:
  Distributed System (in progress), Database, Computer Vision and Multimedia, Networking, Operating System, Automated Testing, Application Programming
- *Computer Engineering*:
  Embedded System Design, Sensor and Peripheral Interface Design, Computer Architecture, Digital Circuit Design, Linear Circuit Design

PROJECTS

- **Interactive AR Interface for Healthcare Robot** | Repository Unlisted Due to NDA
  Worked in a team to build an AR interface for a remote healthcare robot. Project includes an object classifier using machine learning, Java/Processing based robot control, and interactive graphic overlay. Responsible for designing and implementing framework, UDP connection, graphical user interface, and robot control.
- **Social Network Database Management Program** | https://github.com/ethanyuwang/Buzmo
  Built a Facebook-like application that allows chats and microblog posts with SQL in Java. It also provides a manager interface for intuitive daily usage analysis.
- **Side-Scroll Game** | https://github.com/ethanyuwang/cs56-games-country-runner
  Significantly improved an existing Java side-scroll game. Took charge of troubleshooting, adding new difficulty levels and playable features, and version control on GitHub.
- **Multipath TCP** | https://github.com/ethanyuwang/MultiPathTCP
  Implemented a Linux kernel based TCP that uses more than one path between client and server for a wider bandwidth.
- **Wireless Robotic Insect** | https://github.com/ethanyuwang/Wireless-Robotic-Insect
  Designed and built an embedded system for robotic insect with support for Bluetooth control. Robotic insect is controlled through a LPCXpresso microcontroller.

EXPERIENCE

Research Assistant, UCSB Retina Lab **July – December 2016**

- Responsible for image processing, writing new tools for image related processing, and software maintenance and updating.
- Experience: Java, Python, RStudio, OpenCV, Photoshop, Fiji