Ethan Wang

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http://ethanxyz.com/

QUALIFICATIONS

Programming languages:

C/C++, C#, Python, Java, HTML5, CSS, JavaScript, Matlab, Verilog/System Verilog

Platforms, IDEs, and others:

Bash, Unix, Windows, Git/GitHub, Eclipse, Android Studio, Visual Studio, MySQL, Bootstrap, jQuery, JSON, XML, CSV, VMWare, Adobe Suite: Photoshop, Lightroom, Premiere Pro, Adobe XD

EDUCATION

University of California, Santa Barbara (UCSB)

B.S. Computer Engineering   **September 2013 - June 2017**

- Main courses completed:

  Distributed Systems, Android Development, Database Systems, Computer Vision and Multimedia, Networking, Operating Systems, Automated Testing, Application Programming, Embedded System Design, Sensor and Peripheral Interface Design, Computer Architecture, Object Oriented Design, Data Structures, Multi-threaded Programming, Algorithms

EXPERIENCE

Intern, Chemical Life Cycle Collaborative   **April – July 2017**

- Responsible for designing and implementing a database for environmentally sensitive chemical substances.
- Experience: MySQL, Python, XML Database, XQuery, HTML scrapping, Excel

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, Linux shell scripting, Photoshop, Fiji

PROJECTS

RestWant | http://ethanxyz.com/RestWant.html

- An Android application that provides a more interactive method of picking restaurants through a card based interface. Responsible for UI/UX, RESTful APIs integration, and backend designing.
- Experience: Java, Android, Firebase

Interactive AR Interface for Healthcare Robot | http://ethanxyz.com/cARe.html

- Worked on a team to build an AR interface for a remote-controlled healthcare robot. Project included an object classifier using machine learning, Java-based robot control, and interactive graphic overlays. Responsible for designing framework, network communication, UI/UX, and robot control.
- Experience: Java, AR, Python, UDP, Agile software development

Dash | https://github.com/ethanyuwang/Dash

- A web app that breaks software development sprint planning into daily to-do lists. Users can create cards with a task and a timer so they can focus on one task at a time and iterate quickly.
- Experience: HTML5, CSS, JavaScript, Bootstrap

Map-Reduce Replicate | https://github.com/JohnUCSB/cs171_final

- A distributed text mapper and reducer. Uses Multi-Paxos for sharing logs and tolerating failures. Hosted on Microsoft Azure and implemented with Python.
- Experience: Python, Distributed System, Socket Programming, TCP

Wireless Robotic Insect | https://github.com/ethanyuwang/Wireless-Robotic-Insect

- Designed and built an embedded system for a robotic insect with support for Bluetooth control. The robotic insect is controlled through a LPCXpresso microcontroller.
- Experience: C, Embedded System, Servo Motors, UART communication