

Richard J. Heng

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EDUCATION

University of California, Riverside
Bachelor of Science in Computer Science

March 2018

TECHNICAL SKILLS

Languages: Java, Python, C/C++, HTML, CSS, Bash, JavaScript, PHP, MySQL
Software: Microsoft Visual Studio, PyCharm, Android Studio, Github, Matlab,
Sublime Text 3, BlueJ, Atmel Studio
Operating Systems: Microsoft Windows(98, XP, Vista, 7, 8,10), Linux(CentOS, Ubuntu)

PROFESSIONAL EXPERIENCE

UniRoutes - Cal State Fullerton

October 2017

Prototype Developer

- Contracted to design and develop a business launch website with a companion mobile android application for Cal State Fullerton business group to demo a company business model.
- Worked closely with UniRoutes team to develop a concept that matches their requirements and gathered information and data through research and development design briefs

PROJECTS

Machine Learning Project

Chatbot AI - Artificial Intelligence

- Developed a artificial conversational entity(Python) to simulate human conversation in an attempt to pass the Turing Test.
- Implemented a retrieval-based model capable of learning and associating words to meaning and store in a memory database.
- Used heuristic functions to make its own decision able to adapt its “personality” from user input and alter responses accordingly.

Application Development Project

UCRmaps - Android App

- Built a university campus navigation app(Java) that would help and guide students find classrooms and buildings around UC Riverside’s large campus.
- Led a team of three students in designing, coding, and implementing a working prototype during UC Riverside’s Annual Cutie Hackathon.
- Improved functionality by including a real-time built in GPS system, live school event feed system and personalized student profiles.

Embedded Systems Project

Reaction Drop Game

- Designed and implemented an interactive two-person game(C/C++) to test human reaction abilities using an ATmega1284 microcontroller capable of solo or multiplayer functionality.
- Used UART for serial communication between 5 microcontrollers for hardware input and data logging.

ACCOMPLISHMENTS/CERTIFICATES

Code Academy Freelance Website Developer Certificate

May 2017

- 8 Week Program learning the development tools and process of building websites

2017 UCR Cutie Hack Winner

May 2017

- Created a phone application that would help and guide students around UCR's large campus