

ANDREW C. HUIE

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EDUCATION

Rice University

Houston, TX, USA

Bachelor of Arts in Computer Science, 2016

Relevant Coursework: Automata, Formal Languages, and Computability; Computer Game Design; Tools and Models in Data Science; Computer Security; Computer Networks

TECHNICAL PROFICIENCY

Computer Languages

Proficient

Java, Python, C++

Familiar

Bash, Javascript/HTML/CSS, MySQL

Development Tools

Linux, Git, Vim, IntelliJ

EXPERIENCE

Dr. Robert Cartwright, Rice University — Object-oriented program development May — Sept 2016

Research Assistant

Houston, TX, USA

- Created a new release of [DrJava](#), a pedagogic integrated development environment (IDE)
- Adapted the JaCoCo Java code coverage library for integrated use in DrJava
- Debugged JUnit integration, Find/Replace, other UI features
- Updated documentation with DocBook

Dr. Dan Wallach, Rice University — Java TCP/IP penetration testing

May — Aug 2015

Research Assistant

Houston, TX, USA

- Inspected the security of TCP connections in Java 8, regarding the HotSpot JVM heap
- Ran thousands of automated trials in VMWare to stress test garbage collector
- Analyzed the JVM heap with VisualVM
- Discovered and patched security flaws

LumaDyne Aerospace & Scientific, LLC — Custom scientific instruments

Feb — Aug 2014

Electrical Engineering Intern

Houston, TX, USA

- Designed and fabricated application-specific printed circuit boards
- Experience with hardware and software design tools: Multisim, Ultiboard, and LabVIEW

Salient Partners, L.P. — Financial assets management firm

May — Aug 2013

IT Intern

Houston, TX, USA

- Diagnosed and resolved a range of software, hardware, and network issues
- Deployed and repaired Dell workstations

PROJECTS

Cutthroat

www.github.com/achooie/cutthroat

Java

Networked multiplayer, top-down, ASCII-art shooter video game in which players mine for ammo and weapon upgrades, and win by reaching a number of kills.

Custom Keyboard

www.github.com/achooie/dotfiles/tree/master/planck-keymap

C

Programmed with [QMK](#), featuring multi-function tap/hold keys and RGB LED modes for ease of programming.