

# Reed Cozart

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## EDUCATION

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### The University of Texas at Austin

Bachelor of Science in Electrical Engineering

May 2016

Software Engineering & Computer Architecture and Embedded Systems

GPA: 3.45

- Member: HKN Psi Chapter Electrical and Computer Engineering Honors Society

## EXPERIENCE

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### International Business Machines: AIX Level 3 Development – *Software Engineer* June 2016 - Present

- Rapidly developed patches and fixes for bugs reported by customers in the AIX Operating System Virtual I/O Servers and Logical Volume Manager, written in C and C++.
- Consulted with and assisted other levels of IBM AIX Service in diagnosing errors or faults detected on customer systems.
- Built and delivered custom file set packages as high priority Interim-Fixes for customers.
- Led a team of interns in development of a Korn Shell AIX application to determine the health-state of AIX Virtual I/O Server configurations via the Hardware Management Console.

### Freescall Semiconductors: Digital Networking Documentation – *Student Intern* May 2013 - Aug 2015

- Three-time Summer Intern, and part-time Co-Op.
- Ensured device data quality throughout product lifecycle by designing a new data delivery automation with quality check audit to determine compliance with internal business rules and other metrics.
- Developed automatic Perl and Bash Scripts perform validation and evaluation of design data.
- Led development of Ruby-based software targeted at enabling, consuming, and producing XML based documentation datasheets.
- Investigated the feasibility of automating the generation of OrCAD Schematic Symbols directly from internal XML datasheets.
- Developed and prototyped an automated OrCAD-Ready .CSV pinout file-generator in Perl.
- Redeveloped and implemented OrCAD .CSV file-generator in Java.
- Developed and integrated the OrCAD .CSV generator into Freescall's internal XML-based Pin-tool.

### The University of Texas at Austin – *Electrical Engineering Peer Advisor* May 2012 - May 2014

- Advise Electrical & Computer Engineering Students, as well as other Engineering and non-engineering students in matters pertaining to Electrical and Computer Engineering.
- Electrical and Computer Engineering Advising Office assistant and receptionist.
- Interviewed and evaluated prospective faculty members during their hiring process.

## LEADERSHIP EXPERIENCE AND ACTIVITIES

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### Alpha Phi Omega Service Fraternity, Alpha Rho chapter – *Bylaws Committee Chair*

Spring 2014

- Created, organized, and supervised the bylaws committee.
- Reviewed the organization's bylaws and proposed amendments for approval by the chapter.

### The University of Texas Recreational Sports – *Group Fitness Instructor*

Spring 2014 - Present

- Teach University of Texas indoor Spinning® classes.

## **RELAVENT ACADEMIC EXPERIENCE**

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### **Senior Design Capstone Project**

Fall 2015

- Created the “Open Vote” electronic voting protocol which is designed to solve the ‘trust’ problem of electronic voting systems.
- Developed a proof-of-concept web application in Java and hosted on Google App Engine.
- Researched current electronic voting system, and considered different design approaches including a Bitcoin-blockchain, and BitTorrent based designs.

### **Operating Systems**

Spring 2015

- Developed a robust and fully functional multi-threaded job control shell in C.
- Developed various components for an operating system over the course of an entire semester including, thread scheduling, locking, virtual memory management, paging, and filesystems.

### **Advanced Software Design Labs**

Spring 2015

- Designed and implemented applications in Android Mobile and Java Web Applications.
- Contributed to development of Payout, a free and legal sports-betting Android Mobile application.
- Applied OO Software Design patterns to assignments such as Factory/Abstract Factory, Observer, Flyweight, Bridge, Controller, and Singleton to ensure minimum memory use, and maximum performance.
- Integrated Software Development techniques such as Build-Management, Version-Control, Integration and Regression Testing.

### **Software Testing**

Spring 2015

- Applied essential concepts and techniques for testing software and finding bugs.
- Created suites for testing Java applications to satisfy criteria such as Node, Branch, and Code Coverage.
- Performed Syntax-based and Input-space partition testing.
- Developed Web-page testing suites with Selenium.

### **Algorithms**

Spring 2014

- Studied and developed solutions to Greedy, Divide and Conquer, and Dynamic Programming problems in Java.

### **Software Design II**

Fall 2013

- Programmed simple threading in Java, Interpolation search, and built a text-version of the Mastermind game.

## **HONORS**

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| • Member: Eta Kappa Nu, Psi Chapter - Electrical and Computer Engineering Honors Society | Spring 2014 |
| • Member: Alpha Lambda Delta - Academic Honors Society                                   | Spring 2012 |
| • Member: Phi Eta Sigma - Academic Honors Society  | Spring 2012 |
| • Member: Alpha Phi Omega <i>Rho Scholars</i>  | Fall 2013   |

## **ADDITIONAL INFORMATION**

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**Computer Skills:** C, Ruby, Java, Python, Shell Scripting, Git, Build Management, CMVC

**Experience With:** HTML/CSS Web Page Design, JavaScript & jQuery, XML and XSD, VHDL, Perl

**Work Eligibility:** Eligible to work in the U.S. with no restrictions