

# JONATHAN MADDEN

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## EDUCATION

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### **The University of Texas at Austin**

2014-2018

*B.S. in Computer Science with honors, GPA: 3.9*

- Distinguished College Scholar, award given to the top 4% of the class
- University honors from Fall 2014- Fall 2015, Fall 2016

## SKILLS

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### **Languages**

- Java, Python, AngularJS, C, AWS, Ruby on Rails, HTML, Swift

### **Frameworks**

- Flask, Django

### **Infrastructure Tools**

- Jenkins, Docker, AWS, Datadog, Splunk, Spinnaker

### **Security Tools**

- Kali, Nmap, Metasploit, Armitage, Burpsuite, Wireshark

## PROFESSIONAL EXPERIENCE

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### **Capital One, Plano TX**

Sep 2018 - Present

*Software Engineer*

- Unit testing with Ruby on Rails
- Automated pipeline for performance tests using Spinnaker
- Helped with Java development to improve customer confidentiality

### **Capital One, Plano TX**

Summer 2017

*Software Engineering Intern*

- Collaborated with environmental management team using Agile
- Learned technologies including AWS, Docker, Flask, and AngularJS
- Developed internal tool for identifying bad practices across the Capital One AWS footprint

### **Xenia Corporation, Houston, TX**

Summer 2016

*Assistant Programming Intern*

- Shadowed Senior Programmer assisting with accounts receivable, general ledger, accounts payable, and materials management systems
- Converted database to flat files for transition to a new system
- Operated on AIX version 7.1, on IBM P720 using Cache and Mumps, "M"

## PROJECTS

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### **ChallengeApp, Java, Spinnaker, Jenkins, Splunk, Ruby on Rails**

- Built performance pipeline
- Helped monitor resources through Splunk
- Designed tests for the UI and APIs used for customer facing web app

### **Userdata Dashboard, Python, AngularJS, Flask, AWS, Elasticsearch, Docker**

- Created a dashboard to identify bad user practices across EC2 instances at Capital One
- Utilizes Elasticsearch to pull userdata quickly through a Flask API to a user interface
- Designed for easy deployment and reliability using both Docker and AWS

### **Pintos Operating System, C**

- Converted file system into a multi-threaded, multi-indexed file system
- Expanded an OS to include priority scheduling, system calls, and virtual memory