

JONATHAN MADDEN

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305 E 31st APT 1
Austin, TX 78705

EDUCATION

The University of Texas at Austin

2014-2018

B.S. in Computer Science, GPA: 3.95

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

SKILLS

Languages

- Proficient in Java, Mumps (M), Python
- Exposure to C++, HTML5, CSS, SQL, AngularJS, C

Related Coursework

- Data Management
- Data Structures
- IOS Mobile Computing
- Algorithms and Complexity
- Principles of Computer Systems
- Intro to Computer Security

PROFESSIONAL EXPERIENCE

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

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 Operation 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

Huffman Coding, Java

- Built compressor for any type of file - uses hash maps, priority queues and trees

ACTIVITIES AND LEADERSHIP

Portico Bible Study Leader

Fall 2016 - Present

Baptist Student Ministry, Austin, TX

- Facilitated weekly bible study with college students on campus
- Recruited on campus and motivated students to become involved

Summer Mission Trip

June 2016

Baptist Student Ministry, Rio Grande Valley, TX

- Managed Vacation Bible School for three weeks with churches across the Valley
- Expanded churches in underprivileged areas and provided support for children and their parents

Mobilize Mission Trip

March 2015

Austin Stone, NYC, NY

- Planned urban development in downtown NYC & focused on church planting in diversity