

Jonathan Craton

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Education

Taylor University (2006 - 2010)

- Bachelor of Science, 2010
- Major: Computer Engineering; Minor: Math

Work Experience

Taylor University Online Graduate Assistant (May 2009 - Present)

- Applied technology to higher education problems
- Solved problems related to academic reporting

Resident Assistant at Taylor University in Upland, IN (August 2009 - May 2010)

- Created student programs to promote learning and growth
- Solved personal, academic, interpersonal, and disciplinary issues

Co-founder and CIO of ion43 in Upland, IN (January 2009 - Present)

- Placed in the top 5 out of 30 at a business plan competition
- Worked directly with clients
- Started a business from the ground up
- Used Django and jQuery for web development

Student Network Engineer at Taylor University in Upland, IN (May 2006 - May 2010)

- Worked with end users to determine the nature of problems and find solutions
- Installed and configured network hardware
- Performed administration of Windows and Linux servers within a domain
- Worked with a large Ethernet network architecture utilizing copper, fiber, and wifi
- Gained an understanding of network security and attacks
- Used a MAC-based network access control system

Software Engineer Intern at LightSys in Seattle, WA (June 2008 - August 2008)

- Designed and wrote the MySQL driver in C for the Centrallix application platform
- Resolved problems relating to security and memory leakage using GDB and Valgrind
- Utilized sourceforge and CVS for project management

Logos Hope Project Worker at Operation Mobilisation in Split, Croatia (June 2007 - August 2007)

- Performed computer and network hardware installation and configuration
- Deployed wired, wireless, and fiber optic Ethernet networking equipment
- Managed, installed, and customized ethernet security cameras

- Gained significant cross cultural experience
- Communicated with a group of over 80 individuals from more than 10 countries to debug computer and network problems and create systems that work well for them
- Solved various technical problems associated with a tight budget, unique purpose, and cultural considerations of the project

Web Admin and AV Assistant at Eastbrook High School in Marion, IN (Spring 2006)

- Learned essential hardware troubleshooting skills
- Obtained general knowledge of audio and video equipment

Skills

Computer Languages:

- C, C++, x86 Assembly
- Java, C# .NET
- PHP, Perl, Python
- HTML, CSS, JavaScript, SQL, XML

Programming Frameworks:

- Django
- jQuery
- Ruby on Rails

Engineering Software:

- Autodesk Inventor, Unigrafix NX, AutoCAD
- LabView, MultiSim, SimuLink
- MatLab, Mathematica

Server Software

- Linux, Windows Server 2000, 2003, and 2008
- Apache, lighttpd, nginx
- MySQL, SQLite
- Memcached
- Squid
- IPTables
- Nagios, Cacti
- IIS
- SharePoint

Office Products:

- Microsoft Word, Power Point, Excel, and Project

Microcomputers:

- PIC
- MSP430

- Arduino
- Basic Stamp

Network Administration

- Hardware installation
- Hardware configuration
- Network monitoring

Interests and Activities

Taylor Engineering Projects:

- Electronic Chaos System
- High-altitude balloon camera and text to speech GPS system
- Car CAN bus interface using a PIC microcomputer
- Presented at Taylor's poster session
- Helped with the ATAIN space science conference

Taylor Groups and Activities:

- Taylor World Outreach - Global Outreach cabinet
- Taylor Entrepreneurship Club
- Carpenter's Hands
- Won the I-69 Collegiate Innovation Challenge

Volunteer and Open Source Projects:

- Logos Hope
- Habitat for Humanity
- Kardia finance system
- Centrallix application platform
- International Conference on Computing and Mission

Interests:

- Technology
- Math/Physics
- Philosophy
- Software Engineering
- Web Development