

# DYLAN JOHNSON

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## EXPERIENCE

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### Emerging Analytics Center, UALR

*Software Engineering Intern*

October 2014 - Present

*Little Rock, AR*

- Worked under Dr. Carolina Cruz-Neira, the inventor of the CAVE system.
- Developed Data Visualization solutions for Oculus Rift and CAVE system.
- Used Unity 3D C# for 3D programming and model manipulation.
- Used OpenCV (used OpenCvSharp to integrate with C#) for computer vision applications.

### Search User Interface Team, Ancestry.com

*Software Engineering Intern*

June 2014 - August 2014

*Provo, UT*

- Worked with a team of engineers to remove and update an old and restrictive codebase.
- Used C#, ASP.NET MVC3, Microsoft SQL Server, Visual Studio 2012, Team Foundation Server, Windows 7 to develop software.
- Used the SCRUM agile software development framework.

## VOLUNTEER

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### IEEE Virtual Reality Conference

*Student Volunteer*

March 23, 2015 - March 27, 2015

*Arles, France*

- Was accepted as a student volunteer for the 2015 IEEE Virtual Reality conference.
- I gave 15 hours of volunteer work and received conference registration and proceedings.
- While at the conference, I sat in on several paper presentations as well as the keynote speeches by Mark Billinghurst and Mel Slater.
- I also gave a presentation on how to use OpenCV with Unity and Vuforia.

## EDUCATION

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### University of Arkansas, Little Rock

*B.S. in Computer Science*

August 2014 - Expected Graduation Year: 2017

- Courses: Language Structure, Computer Systems and Assembly Language, Linear Algebra, Operating Systems, Databases, Theory of Computation.

### Arkansas School for Mathematics, Sciences, and the Arts

*High School Graduation*

August 2012 - May 2014

- Third place Intel International Science and Engineering Fair project in Materials Engineering at the local level for my research on the optimization of aluminum can camping stoves.
- Courses: AP Calculus AB, Calculus 2, Calculus 3 (Vector Calculus), Advanced placement Physics C Mechanics, Advanced Placement Physics C Electricity and Magnetism, Computer Programming 1, Computer Programming 2, Data Structures and Algorithms, Introduction to Web Application Development, Graphics Programming, Discrete Mathematics.

## ONLINE

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<https://github.com/dcjohnson>

<https://www.linkedin.com/in/DylanJohnson1>

## PERSONAL PROJECTS

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### CodeBin

December 2014 - February 2015

- An online Python development environment.
- The backend was build using Python 3.4 and Django 1.7.
- The frontend uses Ace for the code editor and Skulpt for the Python interpreter.
- Currently the user can create new projects and access them with permalinks, fork projects, browse projects, edit and save projects, and make projects public or private.

### Rust

November 2014 - Present

- My current projects through which I am learning the Rust Programming Language that is being developed by Mozilla.
- [Rust-Game](#) My current attempt to build a small multiplayer game in Rust.
- [Little-Rust-Tcp](#) The small TCP Socket library that I am writing for the game.
- Both of the mentioned projects are being managed using Cargo.

### Lisp Interpreters

February 2015 - Present

- I am currently trying to write a Lisp interpreter.
- My first attempt was somewhat successful. It has a working lexerparser and it can evaluate valid Lisps that use builtin functions.
- I am currently rewriting this project in the Rust language. This version will be much more feature complete.

## TECHNICAL STRENGTHS

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### General Programming

Languages:	C, Java, Python, C#, Rust, JavaScript.
Version Control Systems:	git, Team Foundation Server.
Debuggers:	gdb, Visual Studio 2012 Debugging Software.
Package Managers:	Cargo(Rust), PIP(Python).

### Web Programming

Server side:	Python, C#, PHP, and SQL (MySQL, Microsoft SQL Server).
Client side:	JavaScript, CSS, (X)HTML.
Servers:	Apache, Internet Information Services.
Web Frameworks:	Django, ASP.NET MVC3 C#.
Common Gateway Interface:	Python.

### Development Enviromnents

IDEs:	Visual Studio 2012, Visual Studio 2013, Monodevelop, Xamarin.
Text Editors:	Vim, Sublime Text, Atom.

### Operating Systems

Linux: Debian, Ubuntu, Manjaro, Linux Mint, Slackware.

Windows: XP, 7, 8.

### **Unix System Administration**

Proficient with command line utils: grep, ssh, vim, nano, tar etc.

Experience with: configuration files, package managers, compilation, makefiles.