**Colben Aldrich**

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**Education:**

University of Nebraska-Lincoln, Lincoln, NE

Bachelor of Science in Computer Science

Major: Computer Science, GPA: 3.73

**Languages and Environment:**

React, JavaScript, C#, Git, Python, PowerShell, jQuery, HTML, Bash, Linux, Make, Mercurial

**Experience:**

**Software Developer** – Axos Fiduciary Services, Kansas City, KS *July 2018 – May 2019*

* Using React and Redux libraries to create front end bootstrap components to redesign user experience.
* Leveraging .Net and C# to create a server side environment to enable service orientated architecture.
* Creating stored procedure based off a legacy database for server side repositories and React state.
* Verify requirements from legacy applications to ensure positive user experience and features.

**Software Engineer** – Northrop Grumman, Bellevue, NE *May 2017- June 2018*

* Created front end web pages via Backbone.js for users to execute scientific models handled by Glassfish.
* Used Java 6.0 and JNI to create wrappers for scientific models to be handled by a core application.
* Modified Make and Bash files to allow a scientific model to integrate with existing build process and data handling.
* Created Java unit tests via Junit and Mockito to execute native code to verify output accuracy of scientific models.

**Software Associate -** Fiserv Design Studio, University of Nebraska, Lincoln, NE *August 2016- May 2017*

* Used .Net Core to create a bank services web application using MVC framework.
* Developed front end web portals using Razor views and jQuerry to Ajax to replicate banking activities.
* Created back end web API's with C# to receive requests from an iPhone app to communicate to third party libraries for bio-identification security.

**Software Developer Intern** – Global Industries, Inc, Grand Island, NE *May 2016* - *September 2016*

* Developed a back end method to create PDF's with C# inside an existing ASP .Net Web Forms application.
* Adapted 3D CAD designs into webGL to help visualize data and products.

**Software Engineering Intern** – DataBank IMX, Lincoln, NE *May 2015* *- December 2015*

* Received an introduction to C# and developing web portals via MVC framework within ASP.NET.
* Used Entity Framework and Linq to store and retrieve PDFs stored within an SQL database.
* Adapted ASP .Net Identity to create membership tiers for document handling.

**Projects:**

**Game Bot**

* Used Python to create a multiple state machines to track and monitor different states and actions required to play the game.
* Used OpenCV and Tesseract OCR to identify key images tied to each state in the machines to determine transitions.

**Playing Card PDF Generator -** [**PlayingCardPDFGenerator**](https://github.com/failsatheals/PlayingCardPDFGenerator)

* Developed a Windows Form application to create a visual interface to allow users to match front and rear images to create playing cards.
* Used iTextSharp to places images in static location for various paper dimensions, dpi settings, and bleed sizes.
* Allows users to pick a source and destination directory and search for images from a string or file type.

**TextToCardTemplates**

* Developed a Windows Form application to input a CSV file of text and apply text to given card templates.
* Using
* Accounts for different locations of text and dynamically determines font size based off space constraints.
* Allows user to mass produce Card images to be quickly and easy Imported into Playing Card PDF Generator.