

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 jQuery 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](#)

- 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 place 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.