

# Dylan Cairns

SOFTWARE DEVELOPER

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## Education

### Bachelors of Science in Computer Science

WESTERN GOVERNORS UNIVERSITY

*Salt Lake City, Utah*

*2018 - 2021*

### Launch School

ONLINE SOFTWARE ENGINEERING SCHOOL

*2020 - 2021*

## Skills

**Languages** TypeScript, JavaScript, SQL, Python, Java, HTML5, CSS3  
**Frameworks** Node, Express, Jest, Flask, Scikit-learn  
**Tools** Git, Linux, PostgreSQL, Jupyter Notebooks

## Projects

### Full Stack Digital Board Game

*[Github](#) | [Live](#)*

TYPESCRIPT, NODE.JS, EXPRESS.JS, POSTGRESQL, SOCKET.IO, AUTH0, HEROKU

- Designed a complete digital board game using a MVC (Model View Controller) and OOP design.
- Developed a RESTful API back-end to save persistent data to a PostgreSQL database.
- Created a responsive mobile-first design using vanilla JS, HTML5, and CSS3.
- Used web-sockets via the Socket.io library to facilitate real time network multiplayer.
- Created a competent heuristic single player AI.

### Machine Learning Diabetes Prediction App

*[Github](#) | [Live](#)*

PYTHON, FLASK, JUPYTER NOTEBOOKS, SCIKIT-LEARN, PANDAS, PLOTLY

- Cleaned and transformed training data to prepare it for analysis.
- Trained a machine learning model to predict diabetes status based on patterns found in training data.
- Deployed the trained model to a web application allowing visitors to make predictions.

## Work Experience

### Program Manager

*Yunnan, China*

KEYSTONE ADVENTURES

*January 2019 – April 2021*

- Increased diversity of company content by creating a range of new activities and lessons plans.
- Improved employee soft skills by developing and facilitating a company wide soft skills training program.
- Coordinated deployment of staff and resources for multiple simultaneous trips across the country.

### Experiential Education Trip Leader

*Yunnan, China*

KEYSTONE ADVENTURES

*September 2015 – November 2019*

- Led international student groups on outdoor and cultural adventure trips across China.
- Led teams of up to 10 guides and facilitated programs for groups of up to 90+ students.
- Facilitated fun and educational student programs while ensuring client safety in a dynamic environment.