

# KIRA JIROUX

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Full-stack Web Developer with experience working in Agile/SCRUM and a desire to continue learning.

## EDUCATION

**MARCH 2022**

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE**, OREGON STATE UNIVERSITY

Graduated Cum Laude at Oregon State University in 2022.

Dean's List: Fall 2020, Fall 2021

GPA: 3.33

Focus with Simulation and VR Programming, with additional courses involving Web Development, Cybersecurity, Artificial Intelligence, and Machine Learning.

## EXPERIENCE

**JANUARY 2022 – PRESENT**

**WEB DEVELOPER**, UNIVERSAL FLIGHT CONCEPTS

Worked on a Full rewrite of a "Secure Area" used by Admin, Students, Instructors and University coordinators to schedule flight and ground instruction

- Maintain student records and grades for the applicable TCOs (training course outlines)
- schedule maintenance, and I was part of a team that took it from an ASP.Net 4.0 Webforms, SQL Server 2016 application to a stand-alone C# .Net Core 6, Blazor WASM (Web Assembly) Microservices API, with Identity Server integration, SQL Server 2019, Code-First Entity Framework & DB Migrations, Auto-Scaling Cloud Application. I also helped with the ETL scripts to migrate the Data Environment: C#, .Net Core 6, Visual Studio 2022, AWS, SQL, SES, MSSQL 2019, SSMS, EF6, .Net Source Generators, Linux, Docker, SyncFusion, HTML5, CSS3, JavaScript Interop, Terraform, Jenkins

**JANUARY 2020 – MARCH 2020**

**WEB DEVELOPMENT TEACHING ASSISTANT**, OREGON STATE UNIVERSITY

Interacted with and mentored students on the subjects of front and back-end web development, JSON, API Calls and Queries, etc.

- Prepared samples of entire code projects ahead of students to provide accurate technical assistance.
- Held office hours to solve students' problems and teach them good coding practices and techniques.
- HTML/CSS, C++, JavaScript, JSON, Node.js, MySql

SEPTEMBER 2019 – DECEMBER 2019

**CYBERSECURITY & SOCIAL MOVEMENTS TEACHING ASSISTANT, OREGON STATE UNIVERSITY**

Interacted with and mentored students on the subjects of public and private keys, key exchange, encryption methods, man-in-the-middle attacks, TOR, and modern encryption tools.

- Clear understanding of cyber security's relationship to past and present social movements.

JANUARY 2018 – MARCH 2018

**JUNIOR WEB DEVELOPER, DZYNEFX**

- Developed front end UI and front-end code for websites.
- Developed back-end code, data access layers, web services and RESTful APIs in C#, PHP, MSSQL, and MySQL.
- Work with symmetric and asymmetric encryption schemas
- Request, register and configure SSL and TLS certificates.

## SKILLS

- HTML5 \ CSS3
- C \ C++ \ C#
- ASP.NET \ .Net Core
- Blazor
- PHP
- OpenGL
- Matlab
- Java
- JavaScript
- JSON \ XML
- MySql \ MsSql
- Python
- Swift
- R

## TECHNOLOGY

- Git \ GitHub \ GitLab
- Linux \ UNIX
- Visual Studio 2022
- Windows
- Android
- Unreal Engine
- Unity
- Blendr
- Gephi
- iOS

## PROJECTS

**AI-DRIVEN D&D 5E CHARACTER GENERATOR**

Advanced Web Development Final Project

- Lead development in core functionality, including front and back-end development.
- Creates a credible D&D 5e character, including a backstory, for a user based on the input received. Using OpenAI's GPT-3 engine, it makes a deterministic choice between classes and races available, to produce the best possible option given the input received.
- [CS 499 Hall of Fame recipient.](#)
- <https://github.com/tylertitsworth/ai-character-generator>

## IOS GESTURE ALPHABET

CS Senior Project

- iOS keyboard extension that translates movements made by the user's phone to corresponding letters, with the use of Apple's CoreML models.
- Lead Development relating to applications core features and functionalities, front and back-end development.
- Lead team as leader through SCRUM workflow; ensures deadlines are met; happy to help team overcome obstacles.
- <https://github.com/kjiroux/iOS-Gesture-Alphabet>

## ULTIMATE-DEX

Mobile Web Development Final Project

- Lead the development of Ultimate-Dex, a pokemon-related application created as a class project, using the PokeAPI.
- Ultimate-Dex provides quick pokemon-related data to the user, and allows them to save pokemon to their device for quick access.
- <https://github.com/osu-cs492-w20/final-project-tamagucci>

## QUESTBOARD

Databases Final Project

- Questboard is a fantasy task assignment system, featuring guilds which can add quests to the board/forum. Each quest contains a reward set by the guild.
- Questboard utilizes MYSQL database to organize and contain guilds, their members, and quests that are posted to the board.
- Featured member log-in, allowing for members to subscribe to their respective guild(s).
- [https://github.com/yanyan2019/cs340\\_project](https://github.com/yanyan2019/cs340_project)

## QUICKTAROT

Web Development Final Project

- Worked with a small team to create a stylized website to give details about the interpretations of tarot cards, including Major Arcana and both their upright and upside-down positions.
- QuickTarot is a straightforward tool which offers clear representation of each card at various screen resolutions.
- Neatly held all information in a MongoDB database.
- [https://github.com/osu-cs290-sp19/final-project-cs290\\_finalproject\\_teamname](https://github.com/osu-cs290-sp19/final-project-cs290_finalproject_teamname)

## COURSES

- Advanced Web Development
- Game Development
- VR \ AR Development
- Computer Graphics
- Database Management
- Discrete Mathematics
- Operating Systems
- Parallel Programming
- Artificial Intelligence
- Machine Learning
- Data Visualization
- Analysis of Algorithms