

# Tursunpulat Orolov

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## Education

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### The Pennsylvania State University

Bachelor of Science in Computer Science – 2023

**GPA: 3.8 Dean's List Holder**

## Projects

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**GeoGuess**, an interactive iOS application designed to test geographical knowledge, utilizing Swift UI and Google Maps API.

- GitHub: [github.com/Tursunpulat2002/Class-Projects/Geoguess](https://github.com/Tursunpulat2002/Class-Projects/Geoguess)
- Incorporated Google Maps API to generate random street views, providing an engaging user experience.
- Engineered functionality for users to guess locations by placing markers on a map, challenging users' geographic skills.
- Developed a scoring system that rewards points based on the proximity of users' guesses to the actual location, enhancing game competitiveness.
- Optimized user interface for intuitive navigation and game play using Swift UI.
- Received positive feedback from my professor on the app's immersive gameplay

**Lion Spell**, a multilingual word game application for iOS, using Swift.

- GitHub: [github.com/Tursunpulat2002/Class-Projects/LionSpell](https://github.com/Tursunpulat2002/Class-Projects/LionSpell)
- Built core game logic to generate 5, 6, or 7 letter combinations, allowing users to customize difficulty levels.
- Implemented a multilingual feature that supports English and French, expanding user accessibility and inclusivity.
- Created a complex scoring system that awards points based on word count, word length, and utilization of all letters, promoting strategic gameplay.

**Culinary Delights**, a native iOS application using Swift and SwiftUI for browsing various meal recipes.

- GitHub: [github.com/Tursunpulat2002/Culinary-Delights](https://github.com/Tursunpulat2002/Culinary-Delights)
- Utilized MealDB API to fetch and display meal categories, list of meals, and their detailed information.
- Enabled users to explore meal categories and discover detailed recipes including food origin, ingredients, and preparation instructions.
- Created a user-friendly interface, compatible with both iOS Simulator and physical iOS devices.

**TypeMaster**, a web-based typing speed measurement tool, using native JavaScript and Bootstrap.

- GitHub: [github.com/Tursunpulat2002/type-master](https://github.com/Tursunpulat2002/type-master)
- Implemented functionality to generate random passages for users to type, providing a diverse range of practice material.
- Created an algorithm to measure typing speed, accurately calculating words per minute.
- Incorporated a feedback mechanism to report the number of correctly and incorrectly typed words, promoting user skill improvement.
- Received positive user feedback for the tool's interactive design and usefulness in improving typing skills.

## Skills & Certifications

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**Languages:** Kotlin, Swift, JavaScript, Java, Python, Flask, HTML, CSS, Bootstrap

**Tools:** Android Studio, Xcode, Multisim, MARS, Vivado, Git, CocoaPods

**Certificates:** Harvard Summer Coding Academy Python, Harvard Summer Coding Academy Web Dev