

# MIRSHOKHID OKILBEKOV

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## EDUCATION

### University of South Florida

BS Computer Science *GPA: 3.9*

Tampa, FL

Aug 2021 - May 2025

### Codepath

Certificate in Advanced Software Engineering

Remote

May 2022 - Aug 2022

## EXPERIENCE

### USF Engineering Learning Team

*Peer Mentor*

Tampa, FL

June 2022 - Present

- Facilitated ALEKS precalculus tutorial sessions, 3 hours a week
- Individually mentored up to 15 engineering first-year students
- Facilitated weekly Learning Team study sessions with interactive group problem solving
- Met with students one-on-one as needed

## PROJECTS

**Personal Website:** [www.okilbekov.me](https://www.okilbekov.me) (for additional information and projects)

**Search Server** (in progress) *C++*, *CMake*

- Implemented search server that in constructor receives input stream containing a database of documents, and input stream containing search queries. The result of each query is the most relevant document in the database.
- Improved time complexity of each search query by using inverted index data structure to store in which documents each word can be found.
- Used Test Driven Development approach to decrease bugs in code.
- Currently rewriting the codebase to concurrently handle search queries and document database update.
- GitHub: [github.com/okilbekov/search-server](https://github.com/okilbekov/search-server)

**TravL** *React*, *Material-UI*, *HTML*, *CSS*, *JS*

- Developed a responsive single-page web app that shows interesting places around you on the map
- Used Travel Advisor API, OpenWeatherMap API, and Google Map API to fetch the locations of hotels, restaurants, attractions, and also weather to show them on the map
- Implemented search feature allowing the user to find travelling information around the world
- GitHub: [github.com/okilbekov/TravL](https://github.com/okilbekov/TravL), View Project: [travl-m.netlify.app](https://travl-m.netlify.app)

**URL Shortener** *React*, *Express*, *Node.js*, *MongoDB*, *Materialize CSS*

- Created a full-stack web applications using MERN stack that allows users to easily shorten long URLs, and view link's analytics
- Implemented user administration and authorisation using JSON Web Token
- Designed RESTful backend server enabling all data to be stored persistently in an online database
- GitHub: [github.com/okilbekov/shrink-link](https://github.com/okilbekov/shrink-link), View Project: [shrink-the-link-app.herokuapp.com](https://shrink-the-link-app.herokuapp.com)

## LEADERSHIP

### Society of Competitive Programmers at USF

*Technical Chair*

Tampa, FL

May 2022 - Present

- Facilitated weekly workshops on competitive programming, algorithms and data structures

## SKILLS

Languages: C++, JavaScript, Python, HTML, CSS

Frameworks: React, Redux, Express, Node.js, MongoDB, Material-UI, Bootstrap, Materialize CSS, React-Bootstrap, Jest, Google Test

Tools: Git, CMake, Linux, Postman, VS, VS Code, Clion, PyCharm, Vim

## AWARDS

First place in ICPC Southeast Regionals Contest, Div 2

Miami, FL

USF Green & Gold Directors Scholarship

Tampa, FL

Dean's List Fall 21, Spring 22

Tampa, FL