Mirshokhid Okilbekov

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Education

University of South Florida	Tampa, FL
BS Computer Science *GPA: 3.9*	Aug 2021 - May 2025
Codepath	Remote
Certificate in Advanced Software Engineering	May 2022 - Aug 2022

Experience

USF Engineering Learning Team — Tampa, FL
Peer Mentor — 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 (for additional information and projects)

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, View Project: 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, View Project: shrink-the-link-app.herokuapp.com

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

Leadership

Society of Competitive Programmers at USF — Tampa, FL
Technical Chair — 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
Participant of National Math Olympiad in Uzbekistan	Tashkent, Uzbekistan
USF Green & Gold Directors Scolarship	Tampa, FL
Dean's List Fall 21, Spring 22	Tampa, FL